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McGill University,
Montreal, Que.,
March 26, 1938.

Mr. C. L. Jerrom, Managing Director,
Melba Gold Mines Limited,
404 Notre Dame Street, West,
Montreal, Que.

Dear Mr. Jerrom:

Re: Melba Gold Mines Property
Melba Township, Ontario

You have requested a brief statement of my present ideas as to the present geological set-up on the Melba property and the results expectable from continued work. The following will, I hope, give you what you want.

Gold has been found on the surface, in diamond drill cores and in underground workings in a set of veins which strike NW and dip 45 deg. to 60 deg. to the northeast. These veins lie partly in sediments and partly in a diorite mass which intrudes the sediments. The belt of sediments has a trend a little south of east as nearly as can be judged from the few outcrops in the area. The diorite mass has a length of about 1200 feet and a maximum width of 600 feet. There are also small bodies of syenite and feldspar porphyry associated with this mass.

The gold-bearing veins so far found lie at the east end of the intrusive. There are other veins striking northeast and dipping 35 deg. to 70 deg. to the northwest which cut the first set and displace them for short distances. The gold-bearing set consists of bluish quartz with sheared and partly replaced country rock and fine disseminated pyrite. The second set consists of milky quartz with very small amounts of pyrite. The latter appear to be of little value.

Up to the present time attention has been centred on one vein of the first set, which is locally known as the Blue Vein. This is exposed at intervals by trenches over a length of around 600 feet, but what appears to be the most important part lies beyond the east end of the outcrop. This part of the vein was investigated first by diamond drilling and secondly by underground work.

Diamond drilling indicates the presence of gold in important amounts over a length of at least 270 feet at a depth of around 100 feet.

Underground work at the 225-foot level, along what I believe to be the same vein structure, has exposed a length of 113 feet, which, from tests recently completed at McGill University on

material channelled systematically at 2-1/2 foot intervals has been shown to have an average grade of \$12.10 per ton. The average width represented is 3.44 feet. The east face has returned high assays and judging from diamond drill results, it would appear reasonable to expect a continuation of this ore for a further 100 or 150 feet at least.

The vein matter occurs along a clearly defined shear, generally marked by a mud seam up to an inch thick. It is reasonable to expect that this structure will persist laterally and in depth. It should be possible to trace it well beyond the 100 to 150 feet mentioned and other shoots may be found along it.

The continuity of the ore shoot in depth has still to be proved, but a considerable extension down the dip appears probable. An intersection in hole 18 and about 150 feet slope depth below the level gave 1.4 feet with an assay of \$122.85. This appears to be in the same structure. If it is in the same shoot, its shape must be quite irregular, but it appears possible that this marks the location of another body along the same shear.

In addition to the Blue vein, there are three other gold-bearing veins of similar character known. One of these lies to the north. It was cut by diamond drill hole No. 18 at a point about 50 feet above the 225' level. A crosscut 350 feet in length will be required to reach it. Where cut, it gave \$10.15 over 1.8 feet. Another is exposed at the surface to the south, but where seen it carried less gold than the Blue vein. However, it is possible that its extension eastward will carry ore. A third is exposed in two trenches to the west of the stock. Where exposed the gold values are low, but in my opinion, it is worthy of some further attention.

It is reasonable to suppose that still other veins of this set occur in the extensive covered areas around the igneous stock.

The results to date indicate to me that there is a good chance of establishing a successful operation on the Melba property and I recommend that you push the underground work as rapidly as possible. Provision should be made immediately for about 1000 feet of drifting and crosscutting on the 225' level and about 5000 feet of diamond drilling. If the results from this work are satisfactory, the shaft should be then sunk to permit exploration of the vein on at least two more levels-- say, 300 feet. The amount of development required on these levels will depend on the results secured on the 225' level. It is probable that on two additional levels at least 3000 feet of drifting and crosscutting, 900 feet of raising and 5000 feet of drilling would be required.

Yours very truly,

(Signed) J. E. Gill.

extra copies

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REPORT ON THE HUBBARD-KUTTLER CLAIM, LUNA TOWNSHIP,

SPRINGFIELD DISTRICT,

by W. Gerrie.

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Introduction

The Molta Gold Mines Limited to exercise an option on the above claims the writer at the request of Mr. E. V. Hurd, president of the company, undertook to make a brief report on the claims. For this purpose the property was visited on May 6th and 8th, 1939.

Acknowledgment is hereby made to Mr. Hurd for the use of a file of prospect reports on the activities of Molta Gold Mines Limited and to Dr. J. L. Gill, a former consultant for the Molta company, for the loan of several files of plans and sections. Unfortunately no professional reports are available and it has been difficult to correlate much of the information supplied. Government reports on the area are too old to be useful and deal only with reconnaissance geology.

Claims, Location and History of Area

The property consists of 10 unpatented claims, L-59503-6-1-1-1, L-59503-6-1-1-2 and L-70000-6-6. The first eight of these claims were staked by W. H. Hildner in 1933 and 1934 and have been held by D. F. Hurd on an option basis since 1936. The last two claims were staked by Mr. Hurd in 1939.

The claims form a compact block in the north-west part of Molta township, being one mile from the west boundary and two miles from the north boundary. The old access road leading 3 miles north-east from Leach is not usable because of fallen bridges and for the time being the property is reached by a route of the same length which follows the settlers' road eastward from Wavell, southward on the Black River for two miles and north-eastward on the old road for one mile. To avoid the use of the river it is proposed to construct a bush road northward one mile from the property in order to intersect the end of the settlers' road. This would provide a short and direct route to Highway 11 where the distance to Kirkland Lake is less than 35 miles.

History

The property is essentially a gold prospect. Gold was discovered in 1933 on the east end of a shallow ridge which is shown on the accompanying plan. Ten claims were optioned to Molta Gold Mines Limited in 1933 and during the next three years the company carried on a program of trenching, diamond drilling, shaft sinking and underground work. For two months in the late summer of 1939 Tuck-Hughes Gold Mines Limited had an option on the property and did some mapping and sampling. With the advent of World War II no further work appears to have been done and the property eventually reverted to the Crown. Buildings and plant have become dilapidated and have very little salvage value. The present property represents the core of the old Molta group.

Geology and Structure

The surface geology near the shaft is shown on the plan. The governing element of structure appears to be a contact between dioritic gneiss to the south and argillaceous gneiss to the north. The contact trends North 30-40 degrees East and dips northward. Whether the gneiss is part of a cyclical trough of sediments that are younger than the gneiss or whether it is part of a sedimentary bed belonging

The present structure is an ancient factor at present. It is...
...by a series of faulting that run parallel to the contact. The main
gold-bearing vein, usually described as the 'Blue Vein', also runs parallel
to the contact but lies within the sediment. It strikes North 85 degrees
and dips slightly northward 85 degrees. It is accompanied by shearing and
alteration, also by a pattern of cross-fracturing that has produced faulting
in the main vein and has led to the development of irregular veins in the
adjacent rocks. The main vein is displaced 80 feet northward near the shaft
and other displacements have been found underground. The picture is a classic
example of the sedimentary hold in the Scotty-Manro area.

History of Work and Development of Gold Mine

Most of the work on the claim was carried out by Molba Gold Mines
limited in the period from 1905 to 1920. Surface exposures of the main vein
were originally seen and prospecting was used to uncover the vein for a length
of 100 feet. The best gold showings occurred in the east end of the main
vein and in the east end of the drift section through the drift zone. Diamond
drilling was started in 1910 and in the fall of 1913 and was continued
until 1917. In 1917, more work was completed for a total length
of 100 feet. In 1918, a drift section was made north to south and west of
the main vein and in this drift the best veins were encountered. All
the time however, the 'Blue Vein' and free gold was reported in ten of
the drifts holes. Although the drifts were narrow but gold values ranged up to a high
of 100 over 10 inches in No. 20 hole.

A drift section of 85 degrees was started in May, 1939 and was
carried to a depth of 157 feet with a station at 225 feet or a vertical
depth of 125 feet. Approximately a total of 200 feet of lateral work was
performed on this level. West of the drifting was done on the 'Blue vein'
east of the station. Free gold was reported frequently but values were
restricted to narrow widths as in the drill holes. A length of 200 feet
averaging \$15.00 in gold 1.5" in over a width of 3 feet has been reported
for the 'Blue Vein' and a length of 80 feet averaging \$15.00 over 2 feet
has been reported for the 'Main Vein'.

The ore camp is estimated to contain 8,000 tons of material.
Considerable amount of a bluish-grey colour is evident but there is not much
mineralization except in parts of the altered wall-rock. The writer took
three samples from the camp. They gave gold values of \$1.00,
\$1.00 and \$1.00 per ton. A specimen of fractured wall-rock ran \$6.85 and
a sample of quartz veins was also analyzed showed considerable fine gold.

Recommendations

Although it is difficult to appraise this property with the data
available, it is evident from the fact that ore-grade values in gold are
present in considerable lengths and widths in two veins that are opened up
by unexplained development. It is believed that the property merits further
exploration and exploitation. Since the important showings are underground
it is recommended that the workings be developed and that a program of
sampling and mapping be carried out. The results of this program should
determine future plans for the development of the property. To carry out
this work and allow for contingencies a sum of at least \$1,000 should be
provided.

Seattle, Wash.
May 22nd, 1940.

W. Gezie.

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CERTIFICATION

I, William Gerrie, of Swastika, Province of Ontario, do hereby certify :-

1. That I am a geologist and reside at Swastika, Ontario.
2. That I am a graduate of the University of Toronto and have been practicing my profession as a geologist for 32 years.
3. That I have no direct or indirect interest whatsoever in the property referred to in the accompanying report, dated the 30th day of May, 1939, nor in the securities of Fitchvorn Mines Limited, nor do I expect to receive any such interest either directly or indirectly.
4. That the accompanying report is based on a personal examination of the property which was visited for the purpose of the said report on May 6th and May 8th, 1939.
5. That the accompanying report is also based on underground and other data furnished by Mr. D. F. Hurd, 82 Government Road West, Kirkland Lake, Ontario and Professor J. K. Gill, Department of Geology, McGill University, Montreal, Quebec.

Swastika, Ontario.

May 28th, 1939.

W. Gerrie.





To accompany a report entitled : Report on the Hurd-Kittilson claims, Holba Township, Temiskaming District.

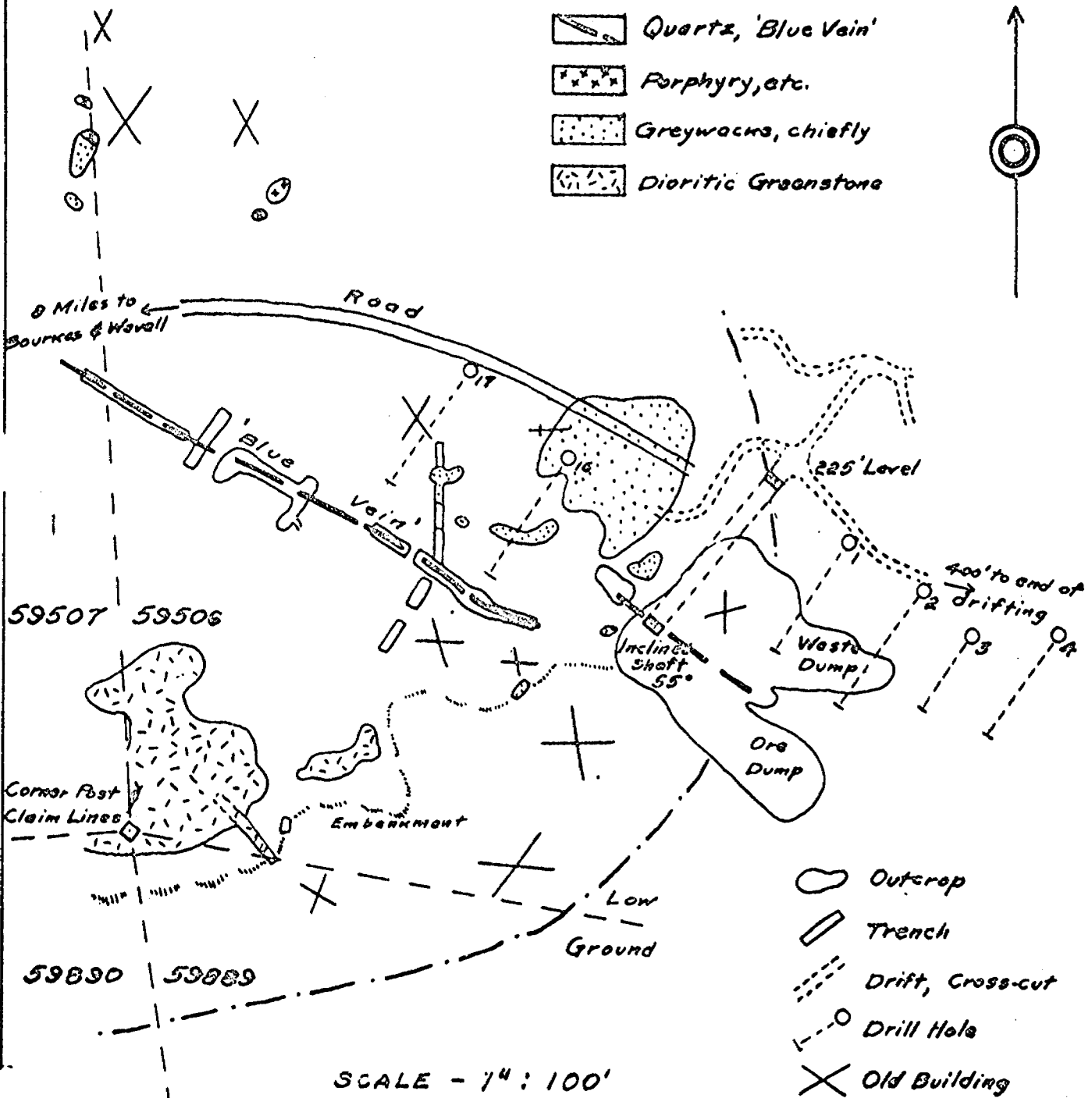
HURD-KITTILSON CLAIMS

TOWNSHIP OF MELDA, DISTRICT OF TEMISKAMING
SURFACE PLAN, SHAFT AREA.

LEGEND

True North

-  Quartz, 'Blue Vain'
-  Porphyry, etc.
-  Greywackes, chiefly
-  Dioritic Greenstone



Data supplied by
D.F. Hurd, W. Gorrie & J.E. Gill
Drawn by W. Gorrie
Geological Unit, 1957



EXERPTS OF REPORTS FROM NORTHERN MINER FILES
ON FORMER -- MELBA GOLD PROPERTY --

MELBA GOLD MINES LIMITED - Incorporated under ^{Ontario} ~~Quebec~~ Charter -
July 13, 1936 -
Auth. Cap. 3,000,000 shares.

Oct. 1, 1936 -- C. Spearman of Montreal - consulting engineer -
Camp construction and surface trenching underway in preparation
for underground test. Visible gold in surface trenches.

March 11, 1937 -- Diamond Drilling results interesting. To
complete title to the property. \$310,000.00 to be paid out @20%
of production. Original discovery on 700'x1500' outcrop. Balance
of 27 claim group mostly muskeg covered. "Blue Vein" is main show-
ing to date traced 600' width narrow. Considerable free gold in
a few places along south-east end of 180'. Also 2 other parallel
veins striking NE. Ten 45 degree d.d. holes were put down to test
SE extension of Blue Vein in swamp. Spaced 50 and 100 feet apart.
All holes cut gold values. #2 - \$37.80/19 ins., #3 - \$28.70/32 ins.
- 50' to SE. #4 - \$18.90/23 ins. Vein continuous between outcrop
and hole #9 for 488 feet. Between #9 and #10 vein faulted 30'
to North. 700,000 sha. issued for prop., 700,000 issued for cash.
A.P. Earle, Pres., C.L. Jerrom, Vice-Pres. & Managing Director,
G. F. Racine - 1835 Bell Telephone Bldg., Montreal - Sec. Treas.
W. H. Laidley, Montreal - T. J. Day, Toronto - W. S. Edward,
Cobourg - A. A. Lessard, Montreal, directors.

April 29, 1937 -- C. L. Jerrom reports a diamond drill hole
(no number given) designed to cut "Blue Vein" at vertical depth
of 400' had reached depth of 430 feet, objective slope depth
600 feet. At 117 feet cut visible gold (no location or direction
given). Shaft sinking to start No. 1st. Foundations completed
for power plant and machinery being installed.

July 22, 1937 -- C. L. Jerrom reports shaft down over 100 feet,
to be continued to 250 feet, level to be at 225. Visible gold in
10 out of 18 d.d. holes. Two thousand feet of lateral work and
\$10,000.00 in d.d. planned for 225' level. No liabilities,
cash in treasury \$33,000.00, inventory \$15,000.00 - 1,400,000 sha.
remain in treasury. Three mile road to property to be completed
in six weeks by Ontario Government. Consulting engineer Prof.
W. G. McBride, and geologist Dr. J. E. Gill, both at McGill University.

REPORT FROM C. L. JERROM

Sept. 9, 1937 -- 55 degree shaft completed to depth of 246 feet.
1st level at 225'. Deep drilling results good. Gold values cut in
shaft. 20 d.d. holes completed to date. Total footage 4371'. Value
in Nos. 11, 12, 13, 16 and 17 not important. Deeper holes Nos. 14,
15 and 18 as follows: #14 - \$20.30/16 ins., #15 - \$2.80/26 ins.,
#18 - \$10.15/22 ins. and another section of values over 13 feet -
best section \$122.00/18 ins. Road to be completed by Sept. 20th.
4 1/2 mile phone line completed. Two veins cut by shaft. 1st enter

Cont'd - MELBA GOLD PROPERTY -

below collar, stayed and went out into footwall at 50 feet. Assayed ore grade across 42 ins. 2nd entered shaft at 180' from footwall side and went out at 210' on hangingwall side. Assays low. Considerable visible gold in place and in muck in both veins.

Nov. 4, 1937 -- 80' x cut #201N, from station to vein cut in #14 hole. Drifting for 55' with visible gold in every round. Vein is a brecciated zone - gold in section 1 foot wide. Fault cut going 20' East (80?) on this vein. D.d. hole 11' into South wall cut vein showing visible gold.

Nov. 25, 1937 -- C. L. Jerron reports that the #204 drift north of shaft opened for combined 95 feet, all except two rounds showed visible gold. Sixty (60) feet east the 206E drift entered the same vein showing visible gold at which point a faulted part of the "Blue Vein" is exposed showing visible gold. 206E drift in vein showed visible gold. Underground d.d. encouraging.

Apr. 28, 1938 -- Northern Miner report to enquiry that vein is good but values in drilling encouraging and values in vein excellent.

Apr. 28, 1938 -- Shareholders Meeting to be called May 2nd, 1938 to approve increasing authorized capital to 3,500,000.

May 5th, 1938 -- C. L. Jerron - at annual meeting recommends opening shaft 2 more levels, 1000' of drift and X cut and 5,000' of underground d.d. Estimated cost \$75,000.00 to \$100,000.00. "Blue Vein" opened 113' x 3.44' x \$12.10 per ton. Estimated to bring production to production \$250,000.00 to \$400,000.00 on a 150 ton basis. Approved given to by-law increasing authorized capital to 3,500,000 shares.

March 1, 1937 balance sheet - current assets \$6,078.00 of which \$5,918.00 Supplies - Liabilities - Accounts Payable \$4,499.00, bank overdraft \$499.00, wages \$1,228.00, advances by directors \$3,955.00 - Total \$10,172.00. Directors elected C.L. Jerron, G.F. Racine, A.D. Ezrie, T.J. Day, W. S. Edwards.

Aug. 11, 1938 -- C. L. Jerron reports New York and Canadian finances arranged. Work to resume extending East drift on "Blue Vein" reports open 113' x 3.44' x \$12.10 per ton, last face East in visible gold and expected by J. E. Gill of McGill University to continue for 1939. Six first rounds of new effort all show visible gold.

Aug. 25, 1938 -- C.L. Jerron reports 7 rounds of advance in 206E drift, all show visible gold. Assays - 1st round \$15.60/3 feet, 2nd round \$15.60/3 feet. Average \$15.00/3 feet.

Sept. 1, 1938 -- C. L. Jerron reports 149' x 42 ins. averaging \$12.10. Drift holes tested the zone at 100, 200, and 300 feet vertical. Dr. Gill consultant, C.L. Jerron, Superintendent. Finances private American group.

Sept. 8, 1938 -- Dr. Gill, geologist, C.H. Poirier retained to advise American Financial Interest. Release reported in progress. Further d.d. planned.

Cont'd -- MELBA GOLD PROPERTY - Pg. 3

November 10, 1938 -- Northern Miner visit to property reports development at 225' level (185' vert.) shows 300 feet ore level with two veins with interesting d.d. values in holes to north and south. Total lateral drive 900'. 200'x3'x\$13.00 in one shoot in "Blue Vein", 95'x3'x\$13.00 in one shoot in the white quartz "Breccia" vein. Gold noted along 300 feet in "Blue Vein", but last 100 feet only average ore grade. Drifting in the "Breccia" vein showed variable gold in every round but two. Grade established by face, muck, bank & mill tests. "Blue Vein" strikes NW along porphyry - sediment contacts. Chief geological feature described as a quartz-diorite intrusive together with which diorite-porphry dikes are associated with quartz veins along the dike contacts. Parallel and north of the "Blue Vein" hole 18' per \$10.00-\$15.00 across 22 ins. Also, 365' south of the workings #11 cut \$15.00/9 ins. and \$5.00/wider section 20' south. Staff C. L. Jarrow, Gen. Mgr., H. H. Brassaw, Superintendent, Dr. J. E. Gill, Consultant, L. J. Lagimodiere, Engineer.

April 30, 1939 -- O.S.C. Reports Melba Gold Mines Limited on April 30th optioned to Federal Trading & Agency Ltd. 1,450,000 shs. as follows:
200,000 shs. @ 8¢ less 25%
200,000 " @ 9¢ " "
200,000 " @ 10¢ " "
Balance at prices .11¢ to .25¢ per share.
Payments at \$1500.00 every month for 4 months
Payments then \$2000.00 every month for 4 months
Payments then increasing, payments all to be completed September 1939.

May 4, 1939 -- A.P. Earle, President Melba Gold Mines reports 100' level x\$13 to \$14 ore in one shoot. Negotiating finances to continue work. Dr. J. E. Gill, company geologist recommends further work and that it is reasonable to expect to find other veins as good as the "Breccia" and a good possibility that much more important discoveries would be made.

June 29, 1939 -- O.S.C. reports that Federal Trading Agency Ltd. taken down 45,000 shs. @ .08¢ less 25% and agreement terminated.

July 6, 1939 -- Melba Gold Mines Ltd. granted 60 day option to Teck Hughes Gold Mines Ltd. to examine the mine, form a new 2,000,000 sh. option of 700,000 shs. to Melba Gold Mines Ltd. of which Teck Hughes to purchase year option to purchase 300,000 of these for \$220,000.00

September 28, 1939 -- Teck Hughes advised Melba Gold Mines Ltd. that option to be withdrawn and option dropped.

October 24, 1940 -- Nov. 5, 1942 -- June 15, 1944 -- July 4, 1945 -- Nov. 1, 1951 -- Northern Miner reports to enquiries that there is a \$50,000.00 mortgage outstanding against the Melba Gold Mines Ltd. and no response from enquiries to Co. secretary.

Charter cancelled in 1956.

Copy - for the generation 10/11/51

(1) ---

Study of Surface & Underground Geology - A.S.J. Haynes
 July 20, 1939

Surface was mapped by B.J. Keating.
 Underground was mapped by G.R. Forbes.
 Seds - Slate and argillite
 Igneous - Quartz-diorite porphyry - Both Pre-ore and Post-ore
 Faults strike both NE-SW & NW-SE
 Quartz veins strike NW-SE dip 15 to 30° W strike 2' /
 Post-ore faulting consists of cross-faults & strike faults -
 normal type - hanging wall side moved down i.p.
 Additional rock types (to those found on surface) noted in
 examining drill cores. Greywacke alone and also as an admixture
 with argillite. Diorite porphyry with no quartz, and a diorite
 are additional igneous.

'Blue Vein' - qtz. vein intruding argillite & quartz-diorite porphyry
 Diorite occurs N&S of the vein. Vein strike NW-SE.
 'Mike' Vein - Strike NE-SW quartz vein in quartz-diorite porphyry
 'Rolling Vein' - NW-SE Quartz in diorite.

Rock Legend: Post ore faulting -----Diorite
 Quartz veins -----Argillite & slate
 Pre-ore Faulting -----Greywacke
 Quartz-diorite porphyry

Of the 3 veins exposed on surface, the 'Blue Vein' is only one
 exposed underground. The Rolling Vein is indicated in diamond
 drill hole V12.

---- July 26, 1939
 4 ton bulk sample taken from backs 60' x 45' x 1.3' = 16' tons
 cut to 4 tons. 135 samples. Total value 605.2 dwt.
 Average 4.48 dwt. 07.34
 --Average channel for same section 6.21 dwt 011.46

DDH #8 - $\frac{6.55}{1.5}$ #18 $\frac{122.80}{1.5}$ located 150 feet below the level
 Last face east (June 15/39) \$42.00/4.1'

Report by - J.E. Gill - McGill University - Oct. 6/36
 To NW of fault the 'Blue Vein' shows 100' with considerable
 coarse gold (60' offset) then 80' to SE considerable coarse gold

DDH # V13 $\frac{16.40}{2.5}$ @ 4.1' - 6.6' VG at 16.0'

204 Dr.E - Back Sample	\$57.60/1.0'	11.3 W of S.P. 204-2
	103.00/1.6'	21.3 " " " "
	29.60/1.6'	18.0 " " " "
206 Dr.E - Back Sample	38.40/2.2'	21.6' W of S.P. 206-12
	10.80/2.0'	26.6 " " " "
	29.20/1.8'	31.6 " " " "
	12.80/1.8'	31.6 " " " " -14
	24.80/1.5'	36.6 " " " " "
	14.40/1.6'	21.3 " " " " "
	24.20/1.9'	28.3 " " " " "
	12.40/2.2'	40.0 " " " " "
	13.20/1.9'	45.0 " " " " "
	34.00/1.8'	50.0 " " " " "
	14.40/1.7'	50.0 " " " " "
	26.00/1.9'	50.0 " " " " "

PITCHVEIN MINES LIMITED

(No Personal Liability)

Prospectus

- (a) Name and address — Pitchvein Mines Limited (No Personal Liability)
82 Government Road West, Kirkland Lake, Ontario.
- (b) Incorporated in Ontario by Letters Patent March 6th, 1953 and subject to the provisions of Part IV of The Corporations Act, 1953, and registered and licensed to do business in the Province of Saskatchewan. Supplementary Letters Patent in Ontario were issued November 10th, 1958.
- (c) President and Director..... Donald Fiske Hurd,
Prospector,
18 Taylor Avenue,
Kirkland Lake, Ontario.
- Vice-President and Director..... Thomas Rodda Rowe,
Automobile Dealer,
110 Government Road East,
Kirkland Lake, Ontario.
- Vice-President and Director..... John Vincent Driscoll,
Business Executive,
527 Lake Shore Road,
Mimico, Ontario.
- Director..... Edward Franklin Carr,
Mining Executive,
17 St. Margaret's Drive,
Toronto, Ontario.
- Secretary-Treasurer and Director..... James Rowe McDougall,
Public Accountant,
60 McKelvie Avenue,
Kirkland Lake, Ontario.
- Assistant Secretary-Treasurer..... Charles Roger Archibald,
Barrister-at-Law,
45 Highland Avenue,
Toronto, Ontario.
- Promoter..... Donald Fiske Hurd,
above mentioned caused the
company to be incorporated.
- (d) Auditor — Frank Rainford, Public Accountant, 82 Government Road West, Kirkland Lake, Ontario.
- (e) Registrar and Transfer Agent, Crown Trust Company, 302 Bay Street, Toronto.
- (f) Capital: Authorized — \$5,000,000 divided into 5,000,000 shares of the par value of \$1.00 each (increased from \$3,000,000 to \$5,000,000 by Supplementary Letters Patent dated November 10th, 1958).
- Issued — 2,885,760 shares as fully paid and non-assessable.

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- (g) No bonds or debentures are outstanding or proposed to be issued.
- (h) Escrowed shares — 688,500 shares are held in escrow by Crown Trust Company, 302 Bay Street, Toronto, subject as to release therefrom and as to hypothecation, alienation, transfer or assignment within the escrow to the consent of the Ontario Securities Commission or such other regulatory body as may have jurisdiction to make requirements in connection with permitting a sale of shares to the public.

(i) Shares sold for cash to date are:

Number	Price per share	Total payment
469,000	\$.10	\$ 46,900.00
200,000	.12½¢	25,000.00
100,000	.15	15,000.00
413,500	.25	103,375.00
200,000	.30	60,000.00
300,000	.35	105,000.00
200,000	.45	90,000.00
10	1.00	10.00
<u>1,882,510</u>		<u>\$445,285.00</u>

No commissions have been paid on the sale of shares by the Company.

NOTE: In addition to the foregoing, 258,250 shares were issued at the price of 10¢ per share to shareholders in repayment of loans to the Company of an aggregate of \$25,825.00.

- (j) No securities other than shares have been sold.
- (k) Donald F. Hurd caused the Company to be incorporated. No shares were issued or paid to any promoters as such, but were issued for assignment of property option as shown in item (i) below.

(l) Properties of the Company:

A. Dasserat Properties

(i) The Company holds under option mining claims and mining rights in the Township of Dasserat, in the County of Temiskamingue, in the Province of Quebec, as follows:

(1) Under working option from Walter Thompson, Prospector, mining claims in the Township of Dasserat in the County of Temiskamingue in the Province of Quebec described in option agreement with the Company as C 86607, Claim 1, and C 86608, Claim 4, comprising 80 acres.

(2) Under option from Antoine Fayolle, Prospector, of the Town of Rouyn, in the Province of Quebec, mining claims and mining rights in the Township of Dasserat in the County of Temiskamingue, in the Province of Quebec, described in option agreement with the Company as R 36580, R 36581; C 3629, Claims 1, 2, 3, 4 and 5; and C 86733, Claims 1, 2 and 3; Mining Concession Number 82, Block A; Mining Concession Number 83, Block B; Mining Concession Number 84, Block C; Mining Concession Number 201, Blocks 4, 5 and 6; and Mining Concession Number 202, Block 7, comprising 1283.3 acres, all contiguous and adjoining claims under the Thompson agreement, and Mining Concession Number 84, Block D, separate, comprising 89.25 acres.

(ii) Under the above mentioned option from Walter Thompson, Prospector, of the Town of Noranda, in the Province of Quebec, which option is dated the first day of April, 1957, the Company paid to the said Walter Thompson the sum of \$200.00 on that date and the said Walter Thompson granted to the Company the immediate and exclusive right to examine, prospect, explore, develop and mine the claims therein described until the first day of April, 1960, subject to the payment by the Company to the said Walter Thompson of \$400.00 for each claim on or before the first day of

April, 1958, and further subject to a payment of the sum of \$1,000.00 to the said Walter Thompson for each claim on or before the first day of April, 1960, together with the issuance to the said Walter Thompson of 10,000 vendor shares of the Company for each claim within 30 days from the first day of April, 1960. It is agreed and understood between the said Walter Thompson and the Company that 90% of the said vendor shares are to be escrowed and subject to release, transfer, assignment, hypothecation or other alienation within the escrow with the consent of The Ontario Securities Commission or such other regulatory body as may be concerned.

The total amounts payable by the Company in order to keep the said option agreement in good standing shall be therefore \$2,800.00 together with the issuance of 20,000 vendor shares, 90% of which vendor shares are to be escrowed and subject to release, transfer, assignment, hypothecation and other alienation within the escrow with the consent of The Ontario Securities Commission or such other regulatory body as may be concerned.

Provision is made in the said option agreements whereby the Company covenants and agrees with the said Walter Thompson to keep the said claims in good standing subject to the rights being given to the Company that it may abandon its rights with respect to all or any part of the said claims upon giving written notice to the said Walter Thompson.

The said Walter Thompson granted extensions to the Company with respect to the payment to be made on April 1st, 1958, until April 1st, 1960, as recorded in agreements dated March 15th, 1958 and April 17th, 1959.

(iii) Under the option from Antoine Fayolle, Prospector, of the Town of Rouyn, Quebec, dated August 14th, 1956, payments of \$250.00 per month were made from August 31st, 1956 to March 31st, 1958, and by virtue of a six month extension agreement dated April 22nd, 1958, said payments were resumed and continued from October 30th, 1958, to and including March 31st, 1959, and, by virtue of a further extension agreement dated April 17, 1959, were suspended until April 30, 1960, from which date they will run to January 31, 1961, and when the said payments aggregating \$9,000 have been made and the further sum of \$41,000.00 paid by the Company then on or before 29th February, 1961, the Company has the following alternate rights:

(1) to cause all the claims to be transferred to a company for such consideration to Fayolle and Pitchvein Mines Limited as Pitchvein may see fit, including not less than 300,000 vendor shares of such company to Fayolle;

(2) to split the contiguous group in two parts and cause one of such parts to be transferred to each of two separate companies for such consideration to Fayolle and Pitchvein as Pitchvein may see fit, including not less than 200,000 vendor shares of each of such companies to Fayolle.

The Company has the right to assign the option to a company, which company on completing the payments shall have alternate rights similar to those above set forth:

(iv) Ten mining claims C 119953, Claims 1 to 5 inclusive and C 119954, Claims 1 to 5 inclusive (400 acres) were staked at a cost of \$350.00 contiguous to the above numbered claims on behalf of the Company and are held under development licenses. Nine further mining claims C 141339, Claims 1 and 2, C 141338, Claims 1 and 2, C 141341, Claims 1 and 2 and C 141342, Claims 1, 2 and 3, (780 acres) were staked at a cost of \$600.00 contiguous to Mining Concession Number 84, Block D.

B. Beaverlodge Properties (YK Group)

- (i) The Company is the holder of thirteen unpatented mineral claims situate north of Milliken Lake in the Beaverlodge Area in the Province of Saskatchewan in the District of Athabaska, known as Mineral Claims YK No. 1 to YK No. 13 inclusive, and recorded as Numbers S 6971 to S 6976 inclusive, S 7247 to S 7249 inclusive and S 9936 to S 9939 inclusive, which are held under the Company's miner's licence, and which are on record in the office of the Mining Recorder, Department of Natural Resources, Regina, Saskatchewan. No work is planned for these Saskatchewan properties at the present time.
- (ii) The foregoing properties were optioned by Sherman Oliver, Uranium, Saskatchewan, to Donald F. Hurd, above mentioned, under agreement dated 9th January, 1953, at the price of \$30,000.00 and 250,000 shares of a Company. Mr. Hurd acted equally on behalf of himself and of T. R. Rowe, above mentioned. Mr. Hurd made the down payment of \$6,000.00 and assigned the option to the Company, by agreement dated 13th March, 1953, for a consideration of \$58,100.00 satisfied by:
- (a) Payment by the Company of \$6,600.00 cash of which \$6,000.00 represented reimbursement to Messrs. Hurd and Rowe for the initial payment made to Mr. Oliver under the option, and \$600.00 represented their expenses;
- (b) Allotment and issue to the nominee of Mr. Oliver of 25,000 shares of the Company's capital stock at 10¢ per share (\$2,500.00) free of escrow being part of the shares issued under the option agreement, and;
- (c) The Allotment and issue to Messrs. Hurd and Rowe equally of an aggregate of 490,000 shares of the capital stock of the Company at the price of 10¢ a share (\$49,000.00), of which 26,500 shares were free of escrow and 463,500 were escrowed on the terms set out in paragraph (h) above.

The Company has completed the exercise of the option prior to the date of this prospectus by payment of \$24,000.00 and issue of 225,000 shares, escrowed as above, to the said Sherman Oliver or his nominees. The total consideration paid by the Company for the properties, therefore, was 740,000 shares at 10¢ per share, plus \$30,600.00.

- (iii) Except for the fact that a \$6,000.00 down payment to Mr. Oliver on the option was originally made by Messrs. Hurd and Rowe, as aforesaid, no person has received or is entitled to receive a greater than 5% interest in the shares and cash received by Messrs. Hurd and Rowe, and the signatories hereto have no information as to those who may have received or be entitled to receive an interest in the cash and shares received or to be received by Sherman Oliver or his nominees, except that of the 250,000 shares allotted, 45,000 were directed to be issued to Sherman Oliver, Uranium, Saskatchewan 97,500 to Herbert Burry, McMurray, Alberta, 97,500 to Stephen Yanik, Uranium, Saskatchewan and 10,000 to Harry Garvey, c/o Imperial Bank of Canada, Queen and Yonge Streets, Toronto.

C. Melba Township Property

The Company has acquired from Donald F. Hurd for his out-of-pocket expenses in option payments and work amounting to \$4,478.60 an assignment of an option from Erling Kittilson of Bourkes, Ontario, dated April 12, 1954, to acquire eight certain mining claims in the Township of Melba, District of Temiskaming, recorded in the Office of the Mining Recorder for Larder Lake Mining Division at Kirkland Lake, Ontario, as Mining Claims Numbers L 59888, 59889, 59890, 59503, 59504, 59505, 59506 and 59507, and for an option good until June 16th, 1960 to purchase at 10¢ per

share one hundred thousand (100,000) unissued treasury shares from the Company, two mining claims in the said Township numbered L 70659 and 70660. To exercise the Kittilson option, the Company must before April 12, 1964 cause to be issued to Kittilson one-third (all of which may be escrowed) of the vendor shares issued for the said claims by a new corporation to be incorporated to acquire them and 75,000 shares of such new corporation free of escrow. The signatories know of no person entitled to any part of the consideration for such assignment and transfer.

D. Abandoned claims

The Company in 1958 acquired 15 mining claims C 141051, claims 1 to 5 inclusive; C 141050, claims 1 to 5 inclusive; C 141049, claims 1 to 5 inclusive, (600 acres) in Comporte Township, Mattagami Lake area, Quebec from Henri Louis Phillipson, 122 Taschereau Street East, Rouyn, Quebec, at a total cost to the Company of \$1,500.00 cash and 5,000 shares free of escrow. These claims, which were acquired on the basis of location alone, were abandoned without any work being done by the Company thereon in view of discouraging developments on neighbouring properties.

- (m) A. The portions of the Dasserat Properties described in Item (l) A (iii) held under option from Antoine Payolle were willed to him in 1945 by one Renaud, who, it is understood, had held them since 1911. Although it is apparent that a good deal of surface trenching had been done before the Company became interested, there are no records of the results of the work available, and the signatories have no further knowledge of any history of any of the Dasserat properties. Since the Company first acquired an interest in these properties the work carried out by or for it has consisted of a geological survey of a substantial area thereof, and diamond drilling. For further particulars, reference is made to the report of William Gerrie, Geologist, dated July 11, 1959, which accompanies and forms part of this Prospectus. There is no plant or equipment owned by the Company on these properties.

No report is filed with respect to the nine mining claims contiguous to Mining Concession 84 Block D as they were staked purely for protection, have no known history or surface or underground plant or equipment, and no work is planned for such claims.

B. On the Beaverlodge Properties, also known as the YK Group, the only work done has been by the Company. Since an interest in the mineral claims was first acquired by the Company geological mapping, surface prospecting, rock trenching, airborne scintillometer and magnetometer survey and some diamond drilling have been carried out as recommended by the Company's technical advisers from time to time. These were E. Amendolagine, W. P. Boyko, A. G. Hodgson, R. G. Hoiles and W. Spencer. No work has been done since 1955, although further exploratory diamond drilling was recommended at that time as results were inconclusive and not sufficiently encouraging to warrant an attempt to raise and expend further monies then or now in the light of conditions respecting prospect uranium properties and their financing. The limited prospecting equipment owned by the Company was moved from the property to storage at Kirkland Lake, Ontario. There is now no plant or other equipment on the property beyond a winterized general utility building 16' x 32'. No report is filed and no further particulars are provided with respect to the Beaverlodge Property of the Company as it is not proposed to expend any portion of the proceeds from the present issue of shares on the further exploration or development thereof.

C. No surface or underground plant or equipment is installed on the Melba Township Claims and for further details of such property reference is made to the report dated May 30, 1959 of William Gerrie which accompanies and forms a part of this Prospectus. No surface or underground work has since been performed.

- (n) By agreement with the Company dated June 16, 1959, Draper, Dobie & Company Limited, 25 Adelaide Street West, Toronto ("Draper")

purchased 200,000 shares at the price of 12½¢ per share and received options to purchase further unissued shares as follows:

200,000 shares at the price of 15¢ per share within 3 months of the effective date;

200,000 shares at the price of 20¢ per share within 6 months of the effective date;

200,000 shares at the price of 25¢ per share within 9 months of the effective date;

200,000 shares at the price of 30¢ per share within 12 months of the effective date;

The effective date is July 3, 1959. Time is of the essence, and failure to make the whole of any option payment terminates the balance of the option. Draper, if it exercises the option in full, has the right of first refusal of any other shares which the Company may desire to offer for sale, except as a general offering to shareholders of the Company. The signatories hereto understand that in the event of a default under the option, primary distribution of shares in Ontario must cease unless an amendment of the said prospectus is filed within 20 days thereafter. Draper (of which more than 5% interest is owned by each of H. W. Knight, 561 Avenue Road, Toronto, H. W. Knight, Jr., 228 Balmoral Avenue, Toronto, and George W. Gooderham, 1 Frybrook Road, Toronto) has no beneficial interest in said agreement and is acting herein as to a 40% interest on behalf of Amitaf Holdings Limited ("Amitaf") and as to a 20% interest on behalf of each of Talisman Holdings Limited ("Talisman"), Univex Limited ("Univex") and Fairhill Developments Limited ("Fairhill"). All issued shares of Amitaf are owned by Fatima Mining Company Limited, and all the issued shares of Talisman are owned by Talisman Mines Limited, and the issued shares of Univex are owned half by Midrim Mining Company Limited and half by Multi-Minerals Limited, all at Suite 911, 25 Adelaide Street West, Toronto.

Fatima Mining Company Limited, Midrim Mining Company Limited and Multi-Minerals Limited are companies whose shares are listed and widely traded on recognized stock exchanges and the only persons holding more than 5% interest in Talisman Mines Limited are Edward Franklin Carr, aforesaid, Edwin Sweet Guilford, 40 Sylvan Avenue, Tuckahoe, New York; Henry Passmore Newell, Old Ford Road, Bernardsville, New Jersey; Stephen Herminah Geoghegan, 840 Shackamaxon Drive, Westfield, New Jersey; Robert Albert Geisler, 274 Riverside Drive, Toronto, and Jefco Holdings Limited, 25 Adelaide Street West, Toronto; Fairhill's address is 145 Yonge Street, Toronto, and all interest therein is owned by Mrs. Shirley Mendelson, 8 Overdale Road, Toronto.

Amitaf, Talisman, Univex and Fairhill plan to effect primary distribution to the public in Ontario either by selling through registered security dealers as agents at commissions not exceeding 25% of the sale price to the public or by selling to registered security dealers at a mark-up not exceeding 1¢ per share. Except as indicated above there are no sub-underwritings or sub-options.

- (o) While the Company plans the further exploration of its optioned and owned Dasserat mining properties, it proposes to commence as promptly as possible exploration of its optioned and owned Melba Township properties along the lines recommended by William Gerrie aforesaid.

The proceeds from the sale of the shares of the Company, as set out in paragraph (n) hereof, will be used for these purposes and to retain in good standing the various mining properties and pay ordinary corporate expenses.

- (p) As the Company has been incorporated for more than one year preliminary expenses, etc., are not here listed.

- (q) There is no indebtedness now outstanding or to be created or assumed not shown on the balance sheet of July 9, 1959, attached hereto and forming a part of this Prospectus, except administrative and other expenses in the normal course of the Company's business.

- (r) (i) The principal business of the directors and officers in each case for more than the past three years, is: Donald F. Hurd, has for many years been an independent prospector.

Thomas R. Rowe, was for many years an officer and part owner of Oliver Blais Company, automobile dealers in Kirkland Lake, Ontario and after two years as owner of MacDonald-Rowe Motors, Kirkland Lake, Ontario, has retired from business.

John V. Driscoll has for many years been General Manager of Peerless Carbon & Ribbon Company Ltd., Toronto.

E. F. Carr has been self-employed and has been associated with Midrim Mining Company Limited, Multi-Minerals Limited, Fatima Mining Company Limited and other corporations.

James Rowe McDougall is a licensed public accountant of Kirkland Lake, and has been for more than three years mine accountant of Lake Osu Mines Limited, and for the past five years has been Secretary-Treasurer of the Company and other mining companies. C. Roger Archibald, Q.C., has been engaged for many years in the private practice of law with the firm of Roberts, Archibald, Seagram & Cole, Toronto.

- (ii) T. R. Rowe and D. F. Hurd are the only directors who had any interest in the options to purchase properties acquired by the Company (see items (i) C. and (i) B.) and none of the directors had any interest, direct or indirect, in the properties themselves, except D. F. Hurd as shown in item (i) C.

- (iii) Remuneration to directors and officers —

No remuneration has yet been paid to any director or officer of the Company as such, nor is any proposed to be paid during the current fiscal year which ends December 31st, 1959, except as follows:

Remuneration of J. R. McDougall, as Secretary-Treasurer during the current fiscal year — \$3,600.00.

- (s) No dividends have been paid by the Company.
- (t) No person is in a position to elect or cause to be elected the majority of the directors of the Company.
- (u) There is no arrangement for the sale of vendor shares known to the signatories hereof. It is understood that from time to time vendor shares released from escrow and shares previously sold for cash may be sold and, in such cases, the proceeds will not accrue to the Treasury of the Company.

There are no other material facts not disclosed by the foregoing.

The foregoing constitutes full, true and plain disclosure of all material facts in respect of the offering of securities referred to above as required by Section 38 of The Securities Act (Ontario), and there is no further material information applicable other than in the financial statements or reports where required.

DATED this 15th day of July, 1959.

DIRECTORS

(signed) D. F. HURD

(signed) E. F. CARR

(signed) T. R. ROWE

(signed) J. V. DRISCOLL

(signed) J. R. McDOUGALL

by his agent, D. F. HURD

(signed) D. F. HURD, Promoter

To the best of our knowledge, information and belief, the foregoing constitutes full, true and plain disclosure of all material facts in respect of the offering of securities referred to above as required by Section 38 of The Securities Act (Ontario) and there is no further material information applicable other than in the financial statements or reports where required. In respect of matters which are not within our knowledge, we have relied on the accuracy and adequacy of the foregoing.

DRAPER, DOBIE & COMPANY LIMITED

(signed) per G. W. Gooderham, President

PITCHVEIN MINES LIMITED

(No Personal Liability)

SCHEDULE "A"

ADMINISTRATION EXPENSE

Period — From Inception to July 9th, 1959.

Advertising		\$ 2,282.80
Audit Fees		295.00
Bank Charges		588.90
Filing, Transfer Agent's Fees and Licenses		3,448.22
Insurance		153.60
Legal		5,912.56
Office Expense:		
Cleaning	\$ 825.00	
General	203.40	
Maintenance	346.00	
Postage	461.46	
Rent — Office	3,520.00	
Rent — Office Equipment	1,625.00	
Stationery	745.84	7,726.70
Telephone and Telegraph		1,885.81
Travel		5,221.36
Wages		27,979.90
TOTAL		<u>\$ 55,494.85</u>

SCHEDULE "B"

EXPLORATION AND DEVELOPMENT EXPENSE

Period — From Inception to July 9th, 1959

Air Freight	\$ 2,472.31
Aeromagnetic and Land Survey	1,905.00
Assaying	3,565.74
Camp Rental	1,350.00
Compensation	936.36
Cookery	7,470.69
Engineering	14,545.32
Express, Freight and Trucking	1,013.00
Filing Fees and Work Certificates	2,289.79
General Expense	61.50
Hospitalization and Medical	143.74
Prospecting and Examination of Properties	15,675.62
Radio Rental and Licenses	306.00
Supplies	13,708.54
Travel and Transportation — Work Crews	12,784.27
Unemployment Insurance	250.44
Wages	27,989.06
Diamond Drilling	138,415.83
Roads	683.50
TOTAL	<u>\$245,566.71</u>

PITCHVEIN MINES LIMITED

(No Personal Liability)

BALANCE SHEET AS AT JULY 9th, 1959

ASSETS			
Current:			
Cash on Hand and in Bank		\$ 22,134.06	
Shares in Other Companies (Market Value \$38,950.00) at Cost — (Note 1)		93,005.48	
Total Current Assets			115,139.54
Fixed — at Cost:			
Office Equipment	\$ 1,290.00		
Mining Equipment	2,382.50		
Mining Properties (Note 2)	105,550.00	109,222.50	
Other:			
Payments on Options to Examine, Prospect, Explore and Develop Mining Claims (Note 3) Antoine Fayolle	6,500.00		
Walter Thompson	200.00		
Donald F. Hurd	4,478.60	11,178.60	
Deferred:			
Administration Expense Schedule "A"	55,494.85		
Exploration and Development Expense Schedule "B"	245,566.71		
Organization	2,975.00	304,036.56	
Total			\$539,577.20

Approved on Behalf of the Board of Directors:

"D. F. HURD", Director.

"J. R. McDOUGALL", Director.

PITCHVEIN MINES LIMITED

(No Personal Liability)

BALANCE SHEET AS AT JULY 9th, 1959

LIABILITIES			
Capital Stock:			
Authorized: 5,000,000 Shares of a par value of \$1.00 each		\$ 5,000,000.00	
Issued as Fully Paid and Non-Assessable:			
1,882,510 Shares Sold for Cash	\$ 1,882,510.00		
Less Discounts	1,437,225.00	\$445,285.00	
258,250 Shares Issued in Repayment of Advances by Shareholders	258,250.00		
Less Discounts	232,425.00	25,825.00	
745,000 Shares Issued for Properties	745,000.00		
Less Discounts	670,500.00	74,500.00	
2,885,760 Shares Issued			545,610.00
2,114,240 Shares Remaining in Treasury as at July 9th, 1959 (Note 4)			
Deficit:			
Capital Loss re sale of 1,600 Shares of Chimo Gold Mines Limited		4,032.80	
Capital Loss created by the abandonment of 15 Mining claims situated in Comporte Township, Mattagami Lake Area, Province of Quebec — At Cost		2,000.00	6,032.80
Total			\$539,577.20

AUDITOR'S CERTIFICATE

I have audited the books and records of Pitchvein Mines Limited (No Personal Liability) for the period from its inception to July 9th, 1959. My examination was made in accordance with generally accepted auditing standards.

In my opinion the foregoing Balance Sheet and Related Schedules are properly drawn up so as to exhibit a true and correct view of the affairs of Pitchvein Mines Limited (No Personal Liability) as at July 9th, 1959, according to the best of my knowledge, the information given to me and as shown by the books of the Company.

All my requirements as auditor have been complied with.

Kirkland Lake, Ontario,
July 11th, 1959.

F. B. RAINFORD,
Public Accountant.

PITCHVEIN MINES LIMITED

(No Personal Liability)

NOTES TO THE BALANCE SHEET OF THE COMPANY as at July 9th, 1959

NOTE 1 — Shares in Other Companies

The Company holds shares in other Mining Companies as follows:

5,000 Shares Chimo Gold Mines Limited — At Cost	\$ 15,055.48
362,000 Shares Payrock Mines Limited — At Cost	74,500.00
125,000 Shares (Escrowed) Payrock Mines Limited — At Cost	1,250.00
22,000 Shares Copper Jim Mines Limited — At Cost	2,200.00
TOTAL	\$ 93,005.48

NOTE 2 — Mining Properties

Mining Claims situated on Milliken Lake, in the Beaverlodge Area, Province of Saskatchewan, acquired October, 1954, for the agreed consideration of:

740,000 Shares of the Capital Stock of the Company at 10¢ per share	\$ 74,000.00
By Cash payments	30,600.00
	<u>104,600.00</u>

Ten (10) Mining claims situated in the Township of Dasserat, County of Temiskamingue, Province of Quebec, acquired by staking December 1956. — At Cost

350.00

Nine (9) Mining Claims situated in the Township of Dasserat, County of Temiskamingue, Province of Quebec, acquired by staking June, 1959. — At Cost

600.00

Two (2) Mining Claims situated in the Township of Melba, District of Temiskaming, acquired by the granting of an option, good until June 16th, 1960, to Donald F. Hurd, to purchase one hundred thousand (100,000) shares of the Capital Stock of the Company at a price of 10¢ per share

Nil

TOTAL **\$105,550.00**

NOTE 3 — Payment on Options

- By agreement, dated the 14th day of August, 1956, The Company was granted an option by Antoine Fayolle, of the Town of Rouyn, in the Province of Quebec, subject to the payment by the Company to Fayolle of the sum of \$250.00 (Two Hundred and Fifty Dollars) on or before the last days of each of the months of August, 1956 to and including July, 1959 (a total of 36 payments), to examine, prospect, explore, develop and

mine the following Mining Claims situated in the Township of Dasserat, County of Temiskamingue, Province of Quebec described as:

R-36580, R-36581, C-3629 claim No. 1, C-3629 claim No. 2, C-3629 claim No. 3, C-3629 claim No. 4, C-3629 claim No. 5, C-86733 Claim No. 1, C-86733 claim No. 2, C-86733 claim No. 3, and Mining Concession No. 82, Block "A", Mining Concession No. 83, Block "B", Mining Concession No. 84, Block "C", Mining Concession No. 201, Block 4, 5 and 6, Mining Concession No. 202, Block 7, all continuous and Mining Concession No. 84, Block "D", separate.

The agreement further grants to the Company, on completion of the aforementioned terms, the rights to acquire the said Mining Claims, on or before the 31st day of October, 1959, on the payment of \$41,000.00 (Forty-one Thousand Dollars) in cash, on or before the last day of August, 1959 and the issuance of not less than 300,000 (Three Hundred Thousand) Vendors Shares of the Capital Stock of the Company, or of a company to whom the said Mining Claims may be transferred.

Amendment

By agreement dated the 17th day of April, 1959, between Antoine Fayolle and the Company, it is agreed that the dates of all future payments of cash and shares and conditions in the original agreement shall be extended for a period of eighteen months from their original dates.

- In consideration of the payment of \$200.00 (Two Hundred Dollars) to Walter Thompson, of the Town of Noranda, in the Province of Quebec, the Company was granted, by agreement dated April 1st, 1957, the right to examine, prospect, explore, develop and mine certain mining claims described as C-86607, Claim No. 1 and C-86608, Claim No. 4, situated in the Township of Dasserat, County of Temiskamingue, Province of Quebec until the 1st day of April, 1960, subject to the payment by the Company to Thompson of the sum of \$400.00 (Four Hundred Dollars) for each claim on or before the 1st day of April, 1958.

The agreement further grants to the Company the rights to acquire the said claims on the payment of \$1,000.00 (One Thousand Dollars) for each claim on or before the 1st day of April, 1960 and the issue of 10,000 Vendors shares (in whatever Company to whom the claims may be transferred) for each claim on or before the 1st day of April, 1960.

Amendment

By agreement dated the 17th day of April, 1959, between Walter Thompson and the Company, it is agreed that the date of all future payments of cash and shares and conditions in the original agreement shall be extended for a period of twenty-four months from their original dates.

- In consideration of the payment of \$4,478.60 (Forty-four hundred and seventy-eight dollars and sixty cents) to Donald F. Hurd (for his out of pocket expenses in option payments and work) by agreement dated June 16th, 1959, he has assigned an option from Erling Kittilson of Bourkes, Ontario, dated April 12th, 1954, to Pitchvein Mines Limited, the Company was granted the rights to examine, prospect, explore, develop and mine certain claims, described as L-59503 — 59504 — 59505 — 59506 — 59507 — 59888 — 59889 — 59890 situated in the Township of Melba, District of Temiskaming, the said option being good until the 12th day of April, 1964.

The agreement further grants to the Company the rights to acquire the said claims by the issue to Kittilson of one-third of the vendors shares issued for the said claims and 75,000 shares free of escrow, in a new corporation to be incorporated to acquire them on or before the 12th day of April, 1964.

NOTE 4 — Capital Stock

- By agreement dated the 16th day of June, 1959, between Donald F. Hurd and the Company, the Company granted an option to purchase one

hundred thousand (100,000) shares of the Capital Stock of the Company, as fully paid and non-assessable, as follows:

100,000 Shares on or before June 16th, 1960 at 10¢ per share.

2. By agreement dated the 16th day of June, 1959, between the Company and Draper Doble and Company Limited, on behalf of its clients as follows:

Amitaf Holdings Limited	(40% Interest)
Univex Limited	(20% Interest)
Talisman Holdings Limited	(20% Interest)
Fairhill Developments Limited	(20% Interest)

The Company has agreed to sell two hundred thousand (200,000) shares of the Capital Stock of the Company, issued as fully paid and non-assessable, at a price of 12.5¢ per share, said shares to be paid for on the effective date, being July 3rd, 1959. By the same agreement the Company granted an option to purchase a further eight hundred thousand (800,000) shares of the Capital Stock of the Company, issued as fully paid and non-assessable as follows:

200,000 Shares within three (3) months of the effective date at a price of 15¢ per share.
200,000 Shares within six (6) months of the effective date at a price of 20¢ per share.
200,000 Shares within nine (9) months of the effective date at a price of 25¢ per share.
200,000 Shares within twelve (12) months of the effective date at a price of 30¢ per share.

Report on the Property of PITCHVEIN MINES LIMITED

Dasserat Township, Quebec

Property

The property consists of the following claims:—

Staked by Pitchvein Mines Limited:

C-119953	No. 1-5 incl.	5 claims	200 acres
C-119954	No. 1-5 incl.	5 claims	200 acres

Held under working option from Antoine Fayolle, Prospector, Rouyn, Quebec:

Block A	Concession No. 82	200 acres	
Block B	Concession No. 83	188.3 acres	
Block C	Concession No. 84	80 acres	
Block 4	Concession No. 201	42 acres	
Block 5	Concession No. 201	38 acres	
Block 6	Concession No. 201	29 acres	
Block 7	Concession No. 202	106 acres	
C-3629	No. 1-5 incl.	5 claims	200 acres
C-86733	No. 1-3 incl.	3 claims	120 acres
R-36580 and R-36581	2 claims	80 acres	

Held under working option from Walter Thompson, Prospector, Noranda, Quebec:

C-86607	No. 1	1 claim	40 acres
C-86608	No. 4	1 claim	40 acres

Total 1563.3 acres

The above groups form a contiguous block in the middle of Dasserat Township and adjoin Renaud Bay on the south shore of Lake Dasserat.

The company also holds under the Fayolle option, mining concession No. 84, Block D, in Dasserat Township. This block of 89.25 acres is on Lake Arnoux, some 4 miles north-east of the main property. It will not be described further in this report as no work is planned there for the present time.

Access and Facilities

The property is approximately 3 miles north of Highway 59 which connects Kirkland Lake with Rouyn-Noranda. This distance is covered by the Kanasuta road to the Payrock camp and a short bush road beyond the camp. The property can therefore be cheaply serviced from two supply centres; it is also close to railway and power lines that parallel the highway.

Geology and Structure

The west part of the property is underlain by Keewatin greenstones, mostly andesitic flows with some breccia. The flow tops tend to be rhyolitic or cherty. These rocks are intruded by a porphyry complex that occupies the east and central parts of the property. Within the complex there is a band of red Temiskaming tuff. The south part of the property is occupied by flat lying Cobalt sediments that form the Swinging Hills. The greenstones are altered and fractured to such an extent that structure determinations are difficult. The general pattern of structure seems to strike North 50-70 degrees East.

Three main shear zones have been located by mapping and drilling. One coincides with the bed of Renaud Creek and extends out into Renaud Bay, striking N 45 E. A second parallels the 'Adit Vein' on the east side of Renaud Bay and strikes N 65 E. A third zone is south of the first two, crosses

the middle of the property for a length of 5,000 feet and strikes N 65-75 E. There are other parallel shear zones of lesser extent. There is also a pattern of north-west faulting that cuts across and displaces the shearing.

Summary of Development Work

Early prospecting consisted of stripping, trenching, test-pitting and some X-ray drilling. A short adit was driven under a quartz vein on the east side of Renaud Bay and two small shafts have been sunk. In all this work there is evidence of wide-spread shearing, veining, mineralization and in some cases appreciable gold values. Mineralization includes pyrite, chalcopyrite, pyrrhotite, silver-bearing galena, molybdenite, tetrahedrite and specular hematite. The primary interest nevertheless appears to be gold.

In 1957 the present company carried out a programme of line-cutting, prospecting and geological mapping. Prospecting uncovered free gold on the south-west shore of Renaud Bay, also a few other gold showings within a radius of 500 feet. At this time Mr. J. G. Gemmell prepared a detailed map of the property which with his report has proven a valuable guide to exploration.

A year later surface work in the form of bull-dozing and blasting was performed on the Renaud Bay showings, also on a fracture zone lying south of the south shear zone described above. Following this work diamond drilling was started in December, 1958 and continued into March, 1959. Eighteen holes for a total of 8,268 feet were drilled. Twelve of these holes totalling 6,526 feet were spent on the Renaud Bay showings, two totalling 982 feet were spent on the fracture zone and four totalling 760 feet were spent on the 'Adit Vein'. At Renaud Bay visible gold was noted in three holes under the main showing and the presence of a heavy shear was established in the middle of Renaud Creek and Renaud Bay, but no commercial values were proven. All the holes in this area showed extensive rock alteration and brecciation with an assortment of veining, mineralization and secondary minerals. Drilling at the other sites produced only low gold values.

Conclusions and Recommendations

The property lies in a mineral belt of recognized importance, where access and facilities permit low-cost exploration. There are many gold showings on the property which merit investigation. Recent work has been centred on the showings on the south-west side of Renaud Bay, on an area near the south shear zone and on a short section of the 'Adit Vein'. The property has other interesting bets where conditions are favourable for the deposition of gold.

Two areas suggested by Mr. Gemmell are regarded as important. One lies north-east of the 'Adit Vein' and extends to the Fayolle camp on the lake shore. The other covers the west end of the south shear zone and its faulted extension to the west. It is recommended that these two areas be tested with diamond drilling. If possible, a further study of the ground in each area should be made before the drilling is started. A limited amount of prospecting could also be carried on in other areas that are noted on the property map.

Swastika, Ontario,
July 11th, 1959.

W. GERRIE

Report on the

HURD-KITTILSON CLAIMS

Melba Township, Temiskaming District

Introduction and Acknowledgments

To enable Pitchvein Mines Limited to exercise an option on the above claims the writer at the request of Mr. D. F. Hurd, president of the company, undertook to make a brief report on the claims. For this purpose the property was visited on May 6th and 8th, 1959.

Acknowledgment is hereby made to Mr. Hurd for the use of a file of press reports on the activities of Melba Gold Mines Limited and to Dr. J. E. Gill, a former consultant for the Melba company, for the loan of several files of plans and sections. Unfortunately no professional reports are available and it has been difficult to correlate much of the information supplied. Government reports on the area are too old to be useful and deal only with reconnaissance geology.

Claim Numbers, Location and Means of Access

The property consists of 10 unpatented claims, L-59503-4-5-6-7, L-59888-89-90 and L-70659-60. The first eight of these claims were staked by E. Kittilson in 1953 and 1954 and have been held by D. F. Hurd on an option basis since 1954. The last two claims were staked by Mr. Hurd in 1959.

The claims form a compact block in the north-west part of Melba township, being one mile from the west boundary and two miles from the north boundary. The old access road leading 8 miles north-east from Bourkes is not usable because of fallen bridges and for the time being the property is reached by a route of the same length which follows the settlers' road eastward from Wavell, southward on the Black River for two miles and north-eastward on the old road for one mile. To avoid the use of the river it is proposed to construct a bush road northward for a mile from the property in order to intersect the end of the settlers' road. This would provide a short and direct route to Highway 11 whence the distance to Kirkland Lake is less than 30 miles.

History

The property is essentially a gold prospect. Gold was discovered in 1934 on the east end of a shallow ridge which is shown on the accompanying plan. 27 claims were optioned to Melba Gold Mines Limited in 1936 and during the next three years the company carried on a programme of trenching, diamond drilling, shaft sinking and underground work. For two months in the late summer of 1939 Teck-Hughes Gold Mines Limited had an option on the property and did some mapping and sampling. With the advent of World War II no further work appears to have been done and the property eventually reverted to the Crown. Buildings and plant have become dilapidated and have very little salvage value. The present property represents the core of the old Melba group.

Geology and Structure

The governing element of structure appears to be a contact between dioritic greenstone to the south and argillaceous greywacke to the north. The contact trends North 50-60 degrees West and dips northward. Whether the greywacke is part of a synclinal trough of sediments that are younger than the greenstone or whether it is part of a sedimentary band belonging to the greenstone series is an unknown factor at present. The greywacke is cut by dikes of porphyry that run parallel to the contact. The main gold-bearing vein, usually described as the "Blue Vein", also runs parallel to the contact but lies within the sediments. It strikes north 55 degrees west and dips northward 55 degrees. It is accompanied by shearing and

alteration, also by a pattern of cross-fracturing that has produced faulting in the main vein and has led to the development of irregular veins in the adjacent rocks. The main vein is displaced 60 feet northward near the shaft and other displacements have been found underground. The picture as a whole resembles that of the sedimentary belt in the Beatty-Munro area.

Previous Work and Description of Gold Showings

Most of the work on the claims was carried out by Melba Gold Mines Limited in the period from 1936 to 1939. Surface exposures of the main vein were evidently few and trenching was used to uncover the vein for a length of 600 feet. The best gold showings occurred in the east end of the main line of trenching and in the faulted section through the shaft zone. Diamond drilling was started on the shaft zone in the fall of 1936 and was continued till the summer of 1937. 18 surface holes were completed for a total length of some 4,000 feet. Drilling was directed from north to south and most of the holes are east of the shaft where the best values were encountered. All the holes intersected the "Blue Vein" and free gold was reported in ten of the eighteen holes. Widths were narrow but gold values ranged up to a high of \$122 over 18 inches in No. 18 hole.

A shaft inclined at 55 degrees was started in May, 1937 and was carried to a depth of 147 feet with a station at 225 feet or a vertical depth of 185 feet. Subsequently a total of 900 feet of lateral work was performed on this level. Most of the drifting was done on the "Blue Vein" east of the station. Free gold was reported frequently but values were restricted to narrow widths as in the drill holes. A length of 200 feet averaging \$13.00 in gold per ton over a width of 3 feet has been reported for the "Blue Vein" and a length of 95 feet averaging \$13.00 over 2 feet has been reported for the "Breccia Vein".

The ore dump is estimated to contain 2,000 tons of material. Considerable quartz of a blue-gray colour is evident but there is not much mineralization except in parts of the altered wall-rock. The writer took three small muck samples from the dump. They gave gold values of \$1.05, \$7.00 and \$23.45 per ton. A specimen of pyritized wall-rock ran \$0.35 and a sample of quartz which was not assayed showed considerable fine gold.

Recommendations

Although it is difficult to appraise this property with the data available, it is evident nevertheless that ore-grade values in gold are present in appreciable length and widths in two veins that are opened up by underground development. It is believed that the property merits further examination and exploration. Since the important showings are underground it is recommended that the workings be dewatered and that a programme of sampling and mapping be carried out. The results of this programme should determine future plans for the development of the property. To carry out this work and allow for contingencies a sum of at least \$25,000 should be provided.

Swastika, Ont.,
May 30th, 1959.

Certificates

I, WILLIAM GERRIE, of Swastika, Province of Ontario, do hereby certify:—

1. THAT I am a geologist and reside at Swastika, Ontario.
2. THAT I am a graduate of the University of Toronto and have been practising my profession as a geologist for 32 years.
3. THAT I have no direct or indirect interest whatsoever in the property referred to in the accompanying report, dated the 30th day of May, 1959, nor in the securities of Pitchvein Mines Limited, nor do I expect to receive any such interest either directly or indirectly.
4. THAT the accompanying report is based on a personal examination of the property which was visited for the purpose of the said report on May 6th and May 8th, 1959.
5. THAT the accompanying report is also based on underground and other data furnished by Mr. D. F. Hurd, 82 Government Road West, Kirkland Lake, Ontario and Professor J. E. Gill, Department of Geology, McGill University, Montreal, Quebec.

Swastika, Ont.,
May 30th, 1959.

W. GERRIE

To accompany a report entitled: Report on the Hurd-Kittilson Claims, Melba Township, Temiskaming District.

I, WILLIAM GERRIE, of Swastika, Province of Ontario, do hereby certify:—

1. THAT I am a geologist and reside at Swastika, Ontario.
2. THAT I am a graduate of the University of Toronto and have been practising my profession as a geologist for 32 years.
3. THAT I have no direct or indirect interest whatsoever in the property referred to in the accompanying report, dated the 11th day of July, 1959, nor in the securities of Pitchvein Mines Limited, nor do I expect to receive any such interest either directly or indirectly.
4. THAT the accompanying report is based on a personal visit to the property in October, 1957 and on the personal preparation of the log reports on the drilling carried out by the company in 1958 and 1959.
5. THAT the accompanying report is also based on data supplied by the company, particularly the map and report prepared by Mr. J. G. Gemmill for the company.

Swastika, Ontario,
July 11th, 1959.

W. GERRIE

To accompany a report entitled: Report on the Property of Pitchvein Mines Limited, Dasserat Township, Quebec.

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PITCHVEIN MINES LIMITED

FROM P.O. BOX 815
KIRKLAND LAKE, ONT.

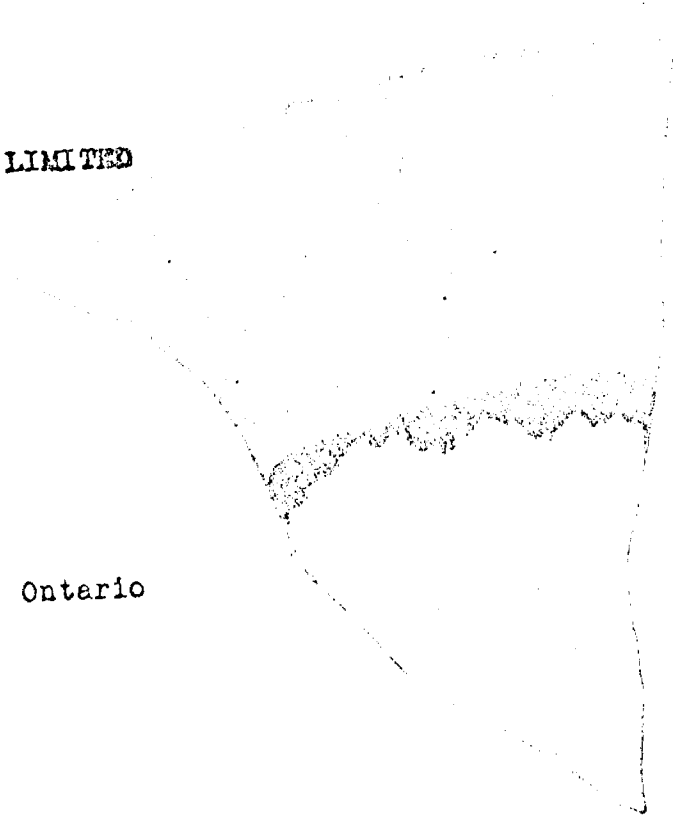
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A Report

On the Property of

PITCHVEIN MINES LIMITED

in

Melba Township, Ontario



George E. Moody, P.Eng.

April 11, 1961

CONFIDENTIAL

Mr. D. F. Hurd,
President, Pitchvein Mines Limited,
82 Government Road West,
Kirkland Lake, Ontario.

I, GEORGE E. MOODY, of the City of Noranda, in
the Province of Quebec, do certify that:

1. I am a mining engineer with an office situated at
181 Murdoch Ave., Noranda, Quebec.
2. I am a graduate of the University of Alberta (1931)
in mining engineering, and have practiced my profession
for 29 years.
3. I am a registered Professional Engineer of the Province
of Quebec and a Fellow of the Geological Association of
Canada.
4. I have no direct or indirect interest nor do I expect
to receive any direct or indirect interest in the
properties or securities of Pitchvein Mines Limited.
5. My report dated April 11th, 1961, is based on a surface
and underground examination on November 13th, 1959, a
study of data on file at the Pitchvein Mines office, of
work done by the former Melts Wild Mines, as well as
a study of information on the work done by Teck-Williams
Mines, excerpts from Northern Miner files and records
of work done by Pitchvein Mines Limited.

DATED this 11th day of April, 1961.

NORANDA, QUEBEC.

George E. Moody
George E. Moody,
Professional Engineer,
Province of Quebec.

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A Report on the Property of
PITCHVEIN MINES LTD.

in

Melba Township, Ontario.

INTRODUCTION:

The Pitchvein Mines property in Melba Township, includes and centres around the surface workings and shaft area of the former Melba Gold Mines Limited.

PROPERTY:

The property consists of a block of 16 unpatented mining claims:

- (a) 8 mining claims numbered as follows: L 59503, 04-05-06-07 inclusive, L 59888-89-90.

The above claims were purchased by Pitchvein Mines in 1960 from E. Kittilson, prospector of Bourkes, Ontario. There is a proviso that Kittilson will receive a 5 cent per ton royalty on any ore milled from these claims.

- (b) 8 mining claims owned outright by Pitchvein Mines and numbered as follows: L 70859-60, L 70879, L 73160-61-62-63-64 inclusive. The total area being approximately 640 acres.

LOCATION, ACCESS, POWER:

The property lies about 12 miles north of the city of Kirkland Lake, where a supply of experienced miners, housing and mine supplies are available.

If the property develops there are several means of access.

1. Replacing the bridge over the Black River and using the old road from the property to Bourkes.
2. Building a road to join up with the present motor road from Kirkland Lake at the south boundary of Melba Township.
3. To build a road one mile north of the property to meet the settlers road branching off Highway 11 at Wavell. A bush road, leaving this road on the east side of the Black River follows the river for two miles where it joins up with the old Bourkes road. This is the present means of access.

The main transmission line to Kirkland Lake passes within six miles of the property.

REGIONAL GEOLOGY:

References:- Ontario Department of Mines reports:- Preliminary Map 1947-A: (Vols. LVII, (Parts IV & V, 1948-) Vol. LVIII, Part IV, 1949) - (Vol. LX, Part VIII & IX, 1951) Vol. LXV, Part V, 1955 - Structural Geology of Ore Deposits. C.I.M.S.A.

There are two dominant regional structural features.

(1) The Porcupine - Destor Fault system which passes about nine miles north of the Pitchvein property. With this lengthy structure are associated, in the Porcupine camp, the following producers, Fenner Hallnor, Brouhan Reef and Dome Mines; in Hyslop Township the Ross Mine (Hollinger) and in Quebec the Beattie and Duquesne Mines. Many lesser gold deposits lie between or beyond those mentioned.

(2) The Kirkland Lake - Larder Lake Fault system. With this structure the mines of Kirkland Lake, Upper Canada and Kerr-Addison are associated as are other former producers and other lesser gold deposits.

These two dominant structures tended to follow regional synclinal basins, usually represented by a series of sedimentary rocks. The gold-bearing ore bodies strung along these two structures are believed to be related to Algonian porphyries which intruded along the main or subsidiary faults.

The sedimentary rocks occurring on the Pitchvein property are thought to represent another infolded structure which has been the loci for strong faulting and into which porphyries with their associated gold-bearing veins have intruded. In this the Pitchvein structure closely resembles the "Kirkland Lake" and the "Porcupine-Destor" structures and their associated gold deposits.

LOCAL GEOLOGY:

Most of the claims are low and overburdened. Outcrops are limited. The only government geological map is the "Black River Sheet" No 300 published in 1921. It is a reconnaissance map only and shows Melba Township to be underlain mainly by basaltic lavas.

The main outcrop area on the property is on Claim L 59505 and it is here that the gold discovery was made, surface work done and the shaft sunk.

The underground workings and most of the outcrop area are underlain by cherty, argillaceous and slaty sediments. Intruding the sediments to the west of the shaft is an intrusive complex of quartz diorite and albite porphyry.

A strong, carbonated, and breccia zone strikes N 30° W and it is along this that the main "Blue Vein" follows. Lesser exposures of this type were seen. Some transverse N.E. trending faults occur. One just west of the shaft displaces the "Blue Vein" 60 feet.

The southwest edge of the outcrop drops sharply off to the muskeg. The edge striking roughly parallel to the fault along the "Blue Vein".

PREVIOUS WORK:

Gold was discovered in 1934. Melba Gold Mines took over the showing in 1936, did most of the surface work, sank the shaft and did the underground work.

Prospecting and trenching opened up four veins:-

1. The Rolling Vein
2. The Mike Vein (a cross vein)
3. The Blue Vein
4. The Contact Vein

The "Blue Vein" is the most important and is the one the underground working was carried out on.

On surface it was traced for a length of 600 feet - narrow for most of its length with the best free gold showings occurring in the east 180 feet.

Surface diamond drilling started in the fall of 1936 and continued into the summer of 1937. Twenty holes were drilled for a footage of 4,371. Most of the holes were east of the shaft in the muskeg. All intersected the "Blue Vein" with free gold reported in ten of the first eighteen holes. Hole No. 18 also intersected another vein to the north that ran \$10.15 over 22" (gold at \$35.00 per oz.).

In May 1937 an inclined shaft (55° to the North) was started and carried to 247 feet with a level at 225 feet inclined depth or 185 feet vertically. A total of 900 feet of lateral work was done, mainly on the "Blue Vein" east of the shaft and the "Breccia Vein". Gold was noted for 300 feet in the "Blue Vein" but 100 feet was below ore grade. 200 feet is reported to have run \$13.00 over 3 feet. Grade was established by face, muck, back and mill tests. A figure for the face sampling was \$13.48 across 40 inches for 169 feet. All values are for gold at \$35.00 per oz.

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Underground work showed the "Blue Vein" to be associated with some strong faulting, which cuts through the argillites and along which porphyry has intruded. The porphyry is irregular and the values appear to be where the vein and shear is along the contact of the argillites and porphyry. The argillites are much brecciated and highly carbonated near the vein or fault.

Teck-Hughes had a 60 day examining option in 1939. They channelled and took a bulk sample over a length of sixty feet on the "Blue Vein".

The channel sampling gave \$11.46 over 4.3 feet.
The bulk sampling gave \$7.84 over 4.5 feet.

The mine closed down on the advent of World War II. The next work to be done was by Pitchvein Mines in 1959.

In 1959 Pitchvein bulldozed part of the outcrop, dewatered the shaft, had the underground and outcrop mapped and resampled the veins.

The "Blue Vein" returned \$16.50 over 3.2 feet for 170 feet or \$12.00 across 3.1 feet for 275 feet, uncut grade.

The 204 vein (Breccia Vein ?) returned \$23.04 across 3.1 feet for 80 feet, uncut grade.

In 1960 Pitchvein again dewatered the underground workings and drilled 26 short holes. Holes H to O inclusive intersected quartz veins and brecciation with considerable visible gold about 20 feet northeast of the 206 vein (Blue Vein) and would appear to indicate a possible parallel vein coming in. Again holes A to G inclusive further to the east on 206 vein also appeared to have picked up in the hanging wall porphyry, another quartz vein containing visible gold. A series of up holes drilled from the shaft x-cut cut considerable visible gold in quartz. (Holes - Y, S, T & J.)

From surface work, diamond drilling and underground work, the Blue or 206 vein's strike is N 50°W and dip 50-55° to the northeast. The main shoot has an indicated rake of around 35° to the southeast and the intersections in surface holes No 18 and 22 may represent a parallel but lower shoot.

SUMMARY AND CONCLUSIONS:

1. Work to date in the shaft area has disclosed a number of gold-bearing quartz veins occurring in shears in sediments and associated with porphyry intrusive. Values appear to be due, almost entirely, to gold appearing in its native state.

2. The main vein, the Blue or 206 vein system has been partially opened up by underground work on one level. This shows the vein to occupy a strong fault in sediments, with much brecciation and carbonate alteration.

3. The principal shoot gave in the 1937 sampling, with gold at \$35.00 per ounce:-

Face sampling:- \$13.48 across 40 inches for 169 feet
or face, muck, sack and mill tests \$13.00 over 36 inches for 100 ft.

1959 - Pitchvein sampling - about grade
Rib sampling:- \$16.50 across 38 inches for 170 feet
or \$12.00 across 37 inches for 275 feet.

4. Other gold-bearing veins have been indicated by surface and underground diamond drilling.

5. The main direction of faulting is N 50°W and cuts through the porphyry as well as the sediments. Several transverse faults are known, some displacing the N 50°W faults and vein systems.

6. The sedimentary rocks occurring on the Pitchvein property are thought to represent another infolded structure, which has been the loci for strong faulting and into which porphyries, with their associated gold-bearing veins have intruded. In this the Pitchvein structure, closely resembles the Kirkland Lake and Porcupine - Dester structures.

RECOMMENDATIONS:

1. That the property be mapped geologically to obtain more information as to rock distribution and structure.

2. At the same time a trial magnetometer survey be carried out over the known outcrop and adjacent area to see if the shear zones might be picked up and the rock formations differentiated. If successful a magnetometer survey of the whole property be made on lines cut at 200 foot intervals.

3. Diamond drilling to:

(a) Investigate the area south of the shaft outcrop. The southwest corner drops off sharply to the muskeg and the edge is roughly parallel to the N 50°W faults. There is a possibility of another shear zone with associated gold-bearing veins lying in the muskeg.

(b) Investigate the present known structure, beyond the area presently worked.

(c) Investigate the vein intersections in D.D. Holes No. 18 and 22 which appear to be in the same plane as the 206 vein but on rake appear to lie under it. These intersections occur at approximately 290 and 370 feet below datum. This drilling would also cut the vein intersections encountered near the collar of Hole 8 and at 175 feet in Hole No. 18

(d) Extend underground hole U-12 south another 200 feet to intersect the Contact Vein and probe for other veins.

(e) Other potential veins or structures as indicated by the above programme.

COST OF PROGRAMME:

On the basis of 10,000 feet of diamond drilling to carry out the recommended drill programme, cement the shaft, make a geological and magnetometer survey and provide for supervision, a cost estimate of \$78,000.00 is made.

Respectfully submitted,

George E. Moody

G. E. Moody, P. Eng.

Noranda, Quebec,
April 11th, 1961.



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A Report

On the Property of

PITCHVEIN MINES LIMITED

in

Melba Township, Ontario

George E. Moody, P.Eng.

20th November 1962

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C E R T I F I C A T E

Mr. D. P. Hurd,
President, Pitchvein Mines Limited,
82 Government Road West,
Kirkland Lake, Ontario.

I, GEORGE E. MOODY, of the City of Noranda, in
the Province of Quebec, do certify that:

1. I am a mining engineer with an office situated at
181 Murdoch Ave., Noranda, Quebec.
2. I am a graduate of the University of Alberta (1931)
in mining engineering and have practiced my profession
for 31 years.
3. I am a registered Professional Engineer of the
Province of Quebec and a Fellow of the Geological
Association of Canada.
4. I have no direct or indirect interest nor do I
expect to receive any direct or indirect interest
in the properties or securities of Pitchvein Mines
Limited.
5. My report dated November 20th, 1962, is based on a
surface and underground examination on November 13th,
1962; the direct supervision of the recent diamond
drilling programme; the detailed mapping of the
outcrop area in the vicinity of the shaft as well as
a study of data on file in the Pitchvein Mine's
office regarding work by former operators as well
as that done by Pitchvein Mines Limited.

DATED this 20th day of November 1962.

George E. Moody
George E. Moody,
Professional Engineer,
Province of Quebec.

NORANDA, QUEBEC.

60

A REPORT ON THE PROPERTY OF
PITCHVEIN MINES LIMITED
in
Melba Township, Ontario

INTRODUCTION:

The Pitchvein Mines property in Melba Township includes and centres around the surface showings and shaft area of the former Melba Gold Mines Limited.

PROPERTY:

The property consists of a block of 16 unpatented mining claims:

- (a) 8 mining claims numbered as follows: L 59503-04-05-06-07 inclusive, L 59888-89-90.

The above claims were purchased by Pitchvein Mines in 1960 from E. Kittilson, prospector of Bourkes, Ontario. There is a proviso that Kittilson will receive a 5 cent per ton royalty on any ore milled from these claims.

- (b) 8 mining claims owned outright by Pitchvein Mines and numbered as follows: L 70659-60, L70879, L 73160-61-62-63-64 inclusive. The total area being approximately 640 acres.

LOCATION, ACCESS, POWER:

The property lies about 12 miles north of the city of Kirkland Lake, where a supply of experienced miners, housing and mine supplies are available.

If the property develops there are several means of access.

1. Replacing the bridge over the Black River and using the old road from the property to Bourkes.
2. Building a road to join up with the present motor road from Kirkland Lake at the south boundary of Melba Township.
3. To build a road one mile north of the property to meet the settlers road branching off Highway 11 at Wavell. A bush road, leaving this road on the east side of the Black River follows the river for two miles where it joins up with

the old Bourkes road. This is the present means of access.

The main transmission line to Kirkland Lake passes within six miles of the property.

REGIONAL GEOLOGY:

References:- Ontario Department of Mines reports:- Preliminary Map 1947-A: Vols. LVII, Parts IV & V, 1948- Vol. LVIII, Part IV; 1949 - Vol. LX, Part VIII & IX, 1951 Vol. LXV, Part V, 1953 - Structural Geology of Ore Deposits, C. I.M. & M.

There are two dominant regional structural features.

(1) The Porcupine - Destor Fault system which passes about nine miles north of the Pitchvein property. With this lengthy structure are associated, in the Porcupine camp, the following producers: Pamour, Hallnor, Eroulan Reef and Dome Mines. In Hislop Township: the Ess Mine (Hollinger) and in Quebec the Beattie and Duquesne Mines. Many lesser gold deposits lie between or beyond those mentioned.

(2) The Kirkland Lake - Larder Lake Fault system. With this structure the mines of Kirkland Lake, Upper Canada and Kerr-Addison are associated as are other former producers and other lesser gold deposits.

These two dominant structures tended to follow regional synclinal basins, usually represented by a series of sedimentary rocks. The gold-bearing ore bodies strung along these two structures are believed to be related to Algonian porphyries which intruded along the main or subsidiary faults.

The sedimentary rocks occurring on the Pitchvein property are thought to represent another infolded structure which has been the loci for strong faulting and into which porphyries with their associated gold-bearing veins have intruded. In this the Pitchvein structure closely resembles the "Kirkland Lake" and the "Porcupine-Destor" structures and their associated gold deposits.

LOCAL GEOLOGY:

Most of the claims are low and overburdened. Outcrops are limited. The only government geological map is the "Black River Sheet" No 30C published in 1921. It is a reconnaissance map only and shows Melba Township to be underlain mainly by basaltic lavas.

The main outcrop area on the property is on Claims L 59503 and it is here that the gold discovery was made, surface work done and the shaft sunk.

The underground workings and part of the outcrop area are underlain by cherty, argillaceous and slaty sediments. Recent drilling has shown that they extend under the low ground to the southwest as far as the drills were able to penetrate.

Intruding the sediments is a complex of basic syenite, diorite and feldspar porphyry with corresponding off-shooting dykes.

A strongly sheared and highly carbonated zone strikes in a rough N50°W direction. It is in this zone that the main "Blue Vein" occurs. Lesser shear zones with accompanying veins also have this general strike.

The main zone cuts across all the formations and in places it is brecciated and strongly drag-folded. The rocks alongside the zone are highly carbonated, often for some distance from the contact.

Some transverse N30°E trending faults occur. On one just west of the shaft the "Blue Vein" is displaced sixty feet. This may not be the total amount of displacement as the formations in diamond drill hole S32-1 & 3, recently drilled, parallel to each other and 300 feet distance, did not correspond. From aerial photos there is a suggestion that a large block taking in all the shaft outcrop area and the workings was displaced to the southwest. Also from surface geology it is possible that the block was also down-thrust.

The southwest edge of the ridge drops off sharply to the extensive swamp below. The edge roughly parallels the main direction of shearing (N50°W). It was thought that a major fault with accompanying vein systems might lie in the low ground. The recent drilling would tend to support the possibility of a major fault.

In holes S62-1 & S62-3 collared near the edge of the outcrop area and drilled S30°W the dip of the sediments showed a pronounced steepening toward the end of the holes. Also hole S33-2, collared 520 feet along strike from the collar of hole S62-1 had not reached bedrock at 230 feet (45° hole) when it had to be abandoned.

Shearing and faulting were encountered in the holes as were porphyry and other dykes.

PREVIOUS WORK:

Gold was discovered in 1934. Melba Gold Mines took over the showing in 1936, did most of the surface work, sank the shaft and did the underground work.

Prospecting and trenching opened up four veins:-

1. The Rolling Vein
2. The Mike Vein (a cross vein)
3. The Blue Vein
4. The Contact Vein.

The "Blue Vein" is the most important and is the one the underground working was carried out on.

On surface it was traced for a length of 600 feet - narrow for most of its length with the best free gold showings occurring in the east 180 feet.

Surface diamond drilling started in the fall of 1936 and continued into the summer of 1937. Twenty holes were drilled for a footage of 4,371. Most of the holes were east of the shaft in the muskeg. All intersected the "Blue Vein" with free gold reported in ten of the first eighteen holes. Hole No. 18 also intersected another vein to the north that ran \$10.15 over 22" (gold at \$35.00 per oz.).

In May 1937 an inclined shaft (55° to the North) was started and carried to 247 feet with a level at 225 feet inclined depth or 185 feet vertically. A total of 900 feet of lateral work was done, mainly on the "Blue Vein" east of the shaft and the "Breccia Vein". Gold was noted for 300 feet in the "Blue Vein" but 100 feet was below ore grade. 200 feet is reported to have run \$13.00 over 5 feet. Grade was established by face, muck, back and mill tests. A figure for the face sampling was \$13.48 across 40 inches for 169 feet. All values are for gold at \$35.00 per oz.

Underground work showed the "Blue Vein" to be associated with some strong faulting, which cuts through the argillites and along which porphyry was intruded. The porphyry is irregular and the values appear to be where the vein and shear is along the contact of the argillites and porphyry. The argillites are much brecciated and highly carbonated near the vein or fault.

Took-Hughes had a 60 day examining option in 1939. They channelled and took a bulk sample over a length of sixty feet on the "Blue Vein".

The channel sampling gave \$11.46 over 4.5 feet
The bulk sampling gave \$7.84 over 4.5 feet.

The mine closed down on the advent of World War II. The next work to be done was by Pitchvein Mines in 1959.

Pitchvein bulldozed part of the outcrop, dewatered the shaft, had the underground and outcrop mapped and resampled the veins.

The "Blue Vein" returned \$16.50 over 3.2 feet for 170 feet or \$12.00 across 3.1 feet for 275 feet, uncut grade.

The 204 vein (Breccia Vein ?) returned \$23.04 across 3.1 feet for 80 feet, uncut grade.

In 1960 Pitchvein again dewatered the underground workings and drilled 26 short holes. Holes H to O inclusive intersected quartz veins and brecciation with considerable visible gold about 80 feet northeast of the 208 vein (Blue Vein) and would appear to indicate a possible parallel vein coming in. Again holes A to G inclusive further to the east on 208 vein also appeared to have picked up in the hanging wall porphyry, another quartz vein containing visible gold. A series of up holes drilled from the shaft x-out out considerable visible gold in quartz. (Holes - Y, S, T & Q.)

From surface work, diamond drilling and underground work, the Blue or 206 vein's strike is N50°W and dip 50-55° to the northeast. The main shoot has an indicated rake of around 35° to the southeast and the intersections in surface holes No. 18 and 28 may represent a parallel but lower shoot.

RECENT WORK:

During the fall of 1962, three diamond drill holes were drilled to investigate the lowground southwest of the outcrop area.

This work showed the sedimentary bands to continue for at least another 520 feet beyond the collar of hole S32-1. The dip of the sediments in both holes S32-1 & 3 showed a pronounced steepening toward the end of the holes. The beds dip south.

A deep valley underlying the swamp area was shown by hole S32-2 which had to be abandoned at 230 feet (45° hole), while still in overburden.

A number of feldspar porphyry, diorite and basic syenite dykes were intersected by the drilling. All the rocks intersected showed alteration, some highly, while carbonate stringers were numerous.

Visible gold was noted in quartz in both holes S32-1 & 3.

SUMMARY AND CONCLUSIONS:

1. Work to date in the shaft area has disclosed a number of gold-bearing quartz veins occurring in shears in sediments and associated with porphyry intrusives. Values appear to be due, almost entirely, to gold appearing in its native state.

2. The recent diamond drilling programme has shown the sedimentary belt to extend for a still undetermined distance under the low ground to the southwest of the outcrop area.

It also showed the formations to be altered, cut by many porphyry and other dykes, to be often highly cross-faulted and to show shearing and faulting.

The marked steepening of the dip of the bedding toward the end of the holes and marked deepening of the overburden would suggest the presence of a deep valley and the possibility of a fault zone lying not too far ahead.

3. A study of the data on previous work tends to show that diamond drilling was not carried out west of chainage 5-000. Bulldozing and stripping by Pitchvein Mines shows the main shear zone and the "Blue Vein" to continue strongly for at least another 500 feet to the west. Other veins have also not been tested in this area.

4. The main vein, the Blue or 206 vein system has been partially opened up by underground work on one level. This shows the vein to occupy a strong fault in sediments, with much brecciation and carbonate alteration.

5. The principal shoot gave, in the 1937 sampling, with gold at \$35.00 per ounce:-

Face sampling:- \$13.48 across 40 inches for 169 feet
or face, muck, back and mill tests - \$13.00 over 36 inches for 200 feet.

1959 - Pitchvein sampling - uncut grade:-

Rib sampling:- \$16.50 across 38 inches for 170 ft.
or \$12.00 across 37 inches for 275 ft.

6. Other gold-bearing veins have been indicated by surface and underground diamond drilling.

7. The main direction of faulting is N50°W and cuts through the porphyry as well as the sediments. Several transverse faults are known, some displacing the N50°W faults and vein systems.

8. The sedimentary rocks occurring on the Pitch-vein property are thought to represent another infolded structure, which has been the loci for strong faulting, and into which porphyries, with their associated gold-bearing veins have intruded. In this the Pitchvein structure closely resembles the Kirkland Lake and Porcupine - Destor structures.

RECOMMENDATIONS:

1. That priority be given to investigating the main shear zone and accompanying "Blue Vein" west of the previously drilled area. That priority be also given to continuing the cross-sectioning under the low ground for a possible major fault and vein system.

2. For the investigation of the "Blue Vein" a series of diamond drill holes to intersect the vein at 100 feet vertically and spaced at 100 feet intervals be drilled. To do this and for follow-up drilling a total of 3,000 feet of drilling is recommended. The first hole to intersect the shear, where it takes a bend, at chainage 3-90N & 6-60W.

3. It is recommended that a heavier diamond drill rig capable of drilling AX core to 1200 feet be obtained and hole S62-3 be deepened, from its present depth of 726 feet.

4. If the above hole fails to cross section the sedimentary formations and possible major fault zone that successive cross-sectional holes be drilled to accomplish this. To carry out the cross-sectional drilling and any follow-up work that might be indicated a drill footage of 2500 feet is tentatively suggested.

5. The overall cost to carry out the above programme is approximately \$27,000.00.

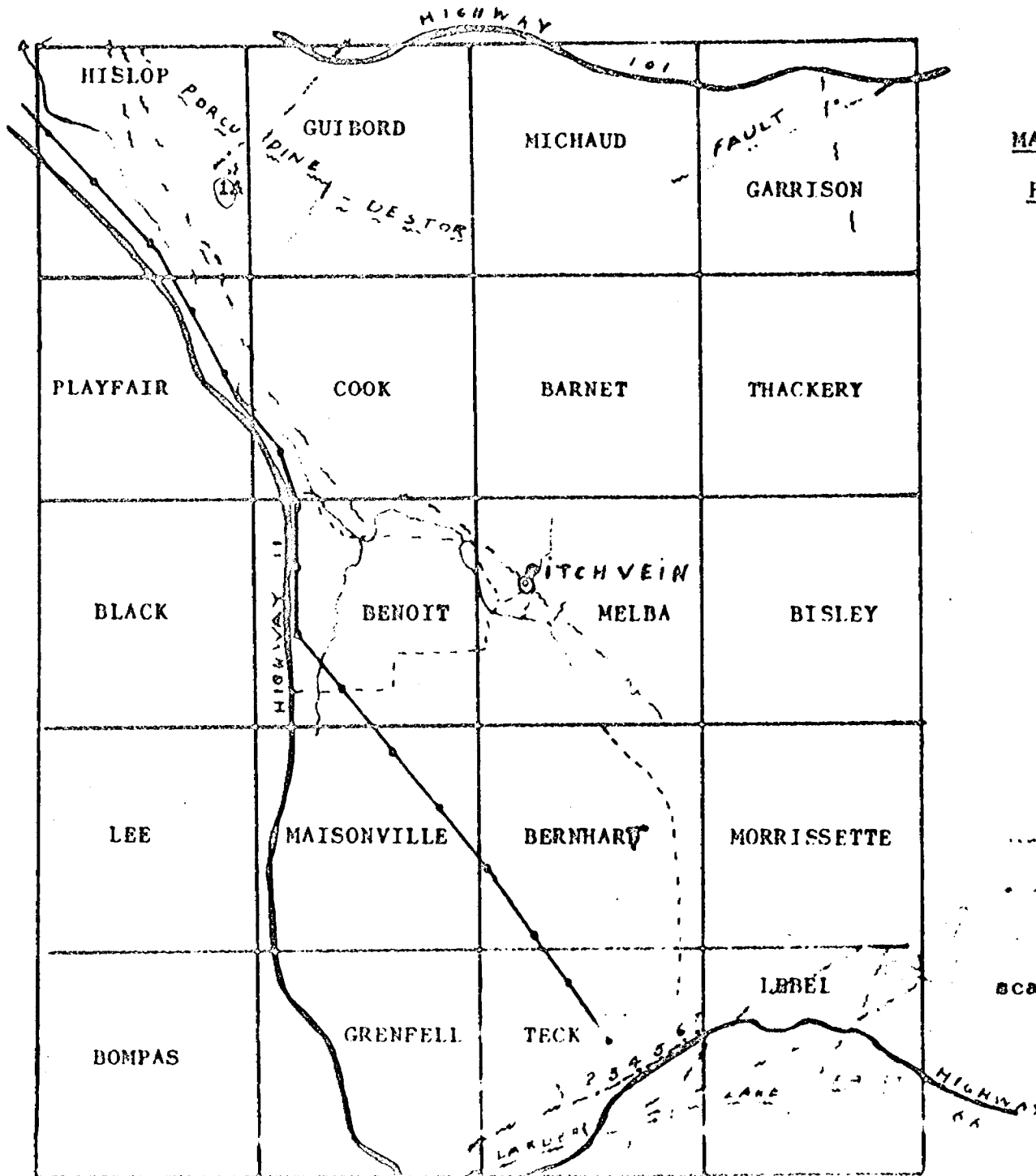
6. That a re-assessment of the whole picture be made on completion of this programme.

Respectfully submitted,

G. E. Moody

G. E. Moody, P. Eng.

Horanda, Quebec,
November 20th, 1962.



MAP SHOWING LOCATION OF
PITCHVEIN MINES LTD.
(MELBA PROPERTY)
MELBA TWP., ONTARIO

LEGEND

- ① Ross MINE (Hollinger)
- 2. Macassa Mines
- 3. Kirkland Lake Gold Mines
- 4. Teck-Hughes Gold Mines
- 5. Lake Shore Mines
- 6. Wright-Hargreaves Mines
- 7. Sylvanite Mines

- Fault
- - - Power line
- Secondary Roads

scale 1 in. = 4 mile 10/4/01

MELBA TOWNSHIP

Claims bought from
E. Kittilson

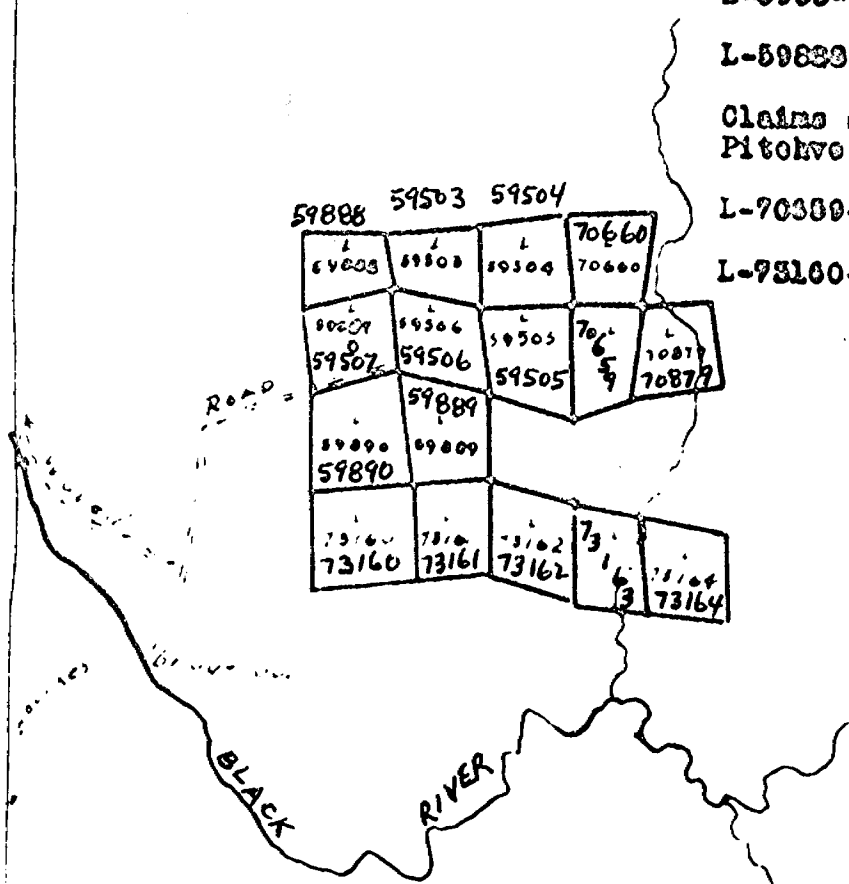
L-5903-04-03-07 &

L-59889-89-90

Claims staked by
Pitchvein Mines:-

L-70300-00; L-70370

L-73160-61-62-63-64



PLAN SHOWING CLAIMS HELD BY

PITCHVEIN MINES LIMITED

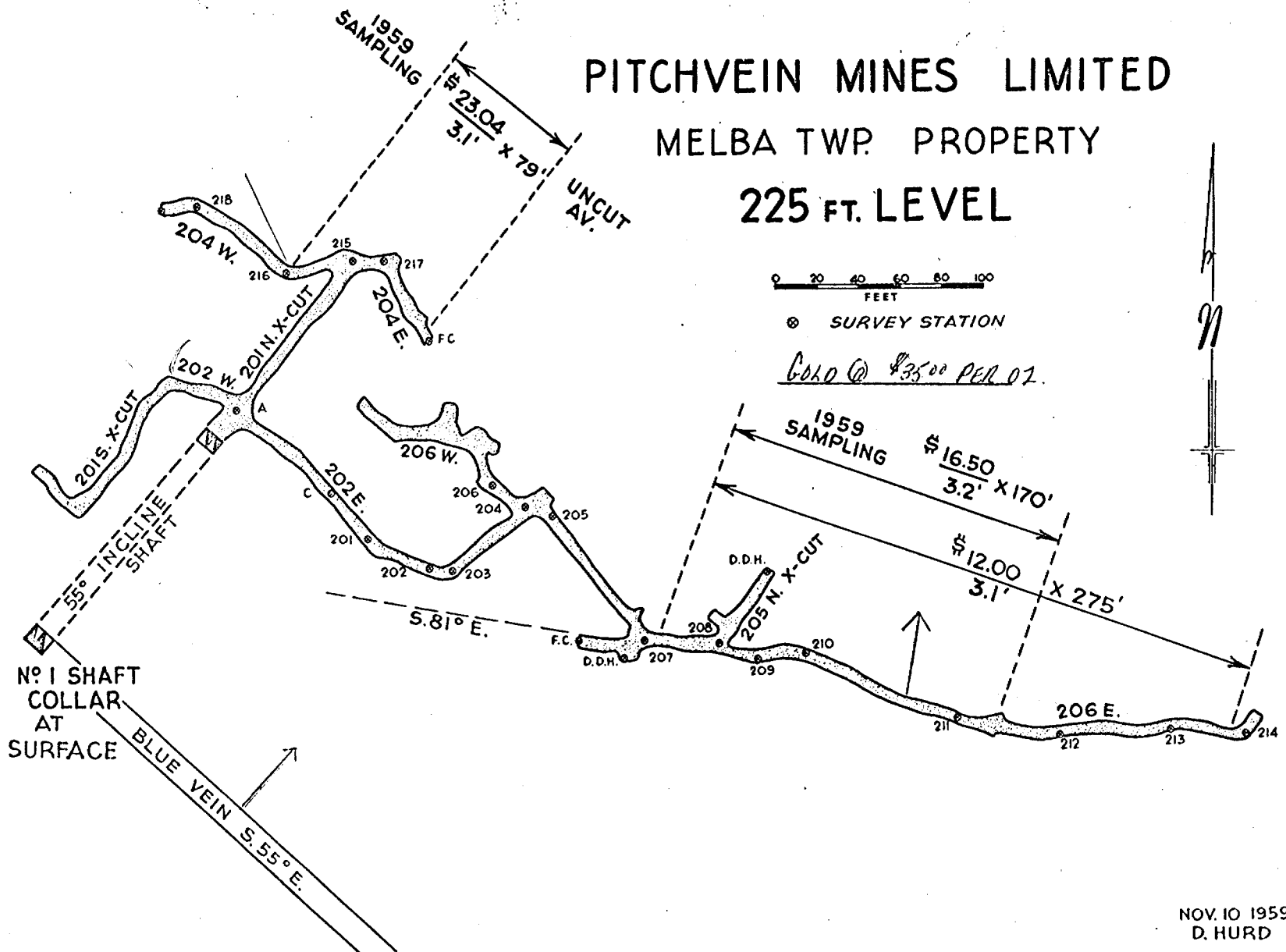
MELBA TWP. ONT.

London Ont. S.C. Hoyle Apr 10/01

PITCHVEIN MINES LIMITED

MELBA TWP. PROPERTY

225 FT. LEVEL



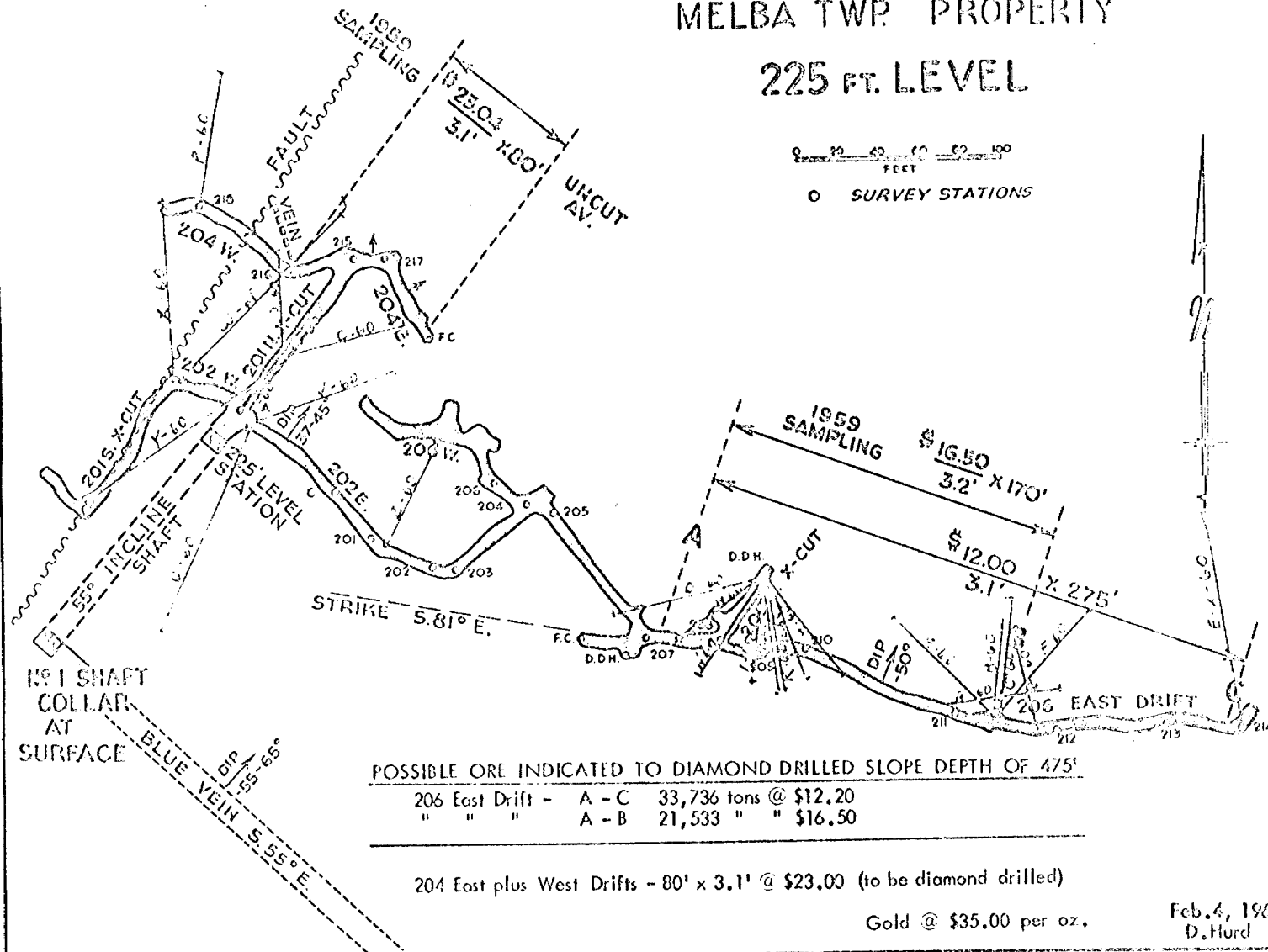
NOV. 10 1959
D. HURD

611

PITCHVEIN MINES LIMITED

MELBA TWP. PROPERTY

225 FT. LEVEL



DIAMOND DRILL RECORD

PROPERTY PITCHVEIN - MELBA

HOLE NO. A-60

SHEET NUMBER 1 SECTION FROM 0.0 TO 53.0 STARTED Mar. 12-60

LATITUDE 9,985 N DATUM 206 E Drift COMPLETED Mar. 15-60

DEPARTURE 10,435 E BEARING N 82.5° E ULTIMATE DEPTH 53.0

ELEVATION 225' Level DIP -14° PROPOSED DEPTH _____

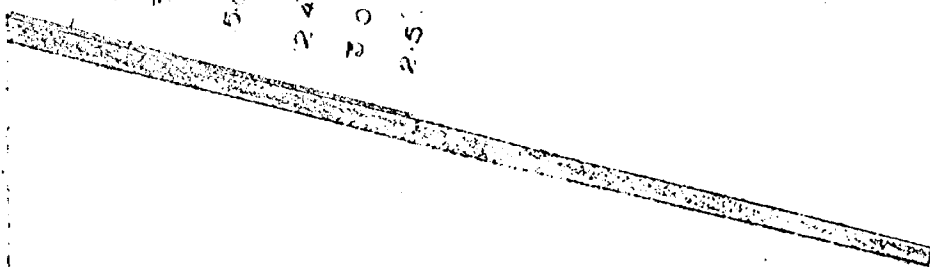
DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	GRAND TOTAL	
0.0 - 3.5	Alt. chert. & qtz.	1301	3.5	.02	GRAND TOTAL 34.50	53
3.5 - 7.0	Qtz. & alt. chert. brecc.	1302	3.5	.03		
7.0 - 10.6	Qtz. & alt. chert. brecc.	1303	3.6	.02		
10.6 - 15.6	Qtz. & sheared carb. porph. at 13' ^{FeS₂ VG @} 11.0 & 13.6	1304	5.0	.38		
15.6 - 18.0	Qtz. & sheared carb. porph. ^{FeS₂ VG @} 16 & 16.9	1305	2.4	1.11		
18.0 - 21.0	Qtz. & sheared carb. porph. ^{FeS₂ VG @} 20 & 21.0	1306	3.0	.86		
21.0 - 23.5	Qtz. str. in porph. VG @ 21.0	1307	2.5	.17		
23.5 - 23.6	Porph. alt. chert. contact.					
23.6 - 29.7	Alt. chert. - light buff colored.					
29.7 - 53.0	Porph. - Folds phenos & green flecks. Qtz. str. - some following the core NB 51-53'					
	END OF HOLE					

*Sediments - Blue
Porphyry type - Grey*

DRILLED BY A. Wilson

SIGNED D. F. Hurd

PT. 025
 35.0.02
 36 0.00
 50 -0.38 VE
 24 1.11 VE
 20 0.86 VE
 2.5 0.17



PITCHNEIN MINES, HILDA TWP. C.D.N. 1960

STARTED Mar 12.60

LENGTH 9.125 N

DATUM 2061 DEPT

STARTED 1960

LENGTH 10.000 E

BENCH 10.000 E






DEPTH 530

LENGTH 11.000

11.000

11.000

LEGEND

-  Chert-Altered
-  Albitite-Porphyrty
-  Andesite-Porphyrty
-  Andesite
-  Quartz

DIAMOND DRILL RECORD

PROPERTY PITCHVEIN - MELBA

HOLE NO. B-60

SHEET NUMBER 1

SECTION FROM 0.0 TO 52.2

STARTED Mar. 15-60

LATITUDE 9,977 N

DATUM 206E Drift

COMPLETED Mar. 26-60

DEPARTURE 10,462.5 E

BEARING N 9.5 E

ULTIMATE DEPTH 52.2

ELEVATION 225' Level

DIP -25 (down hole)

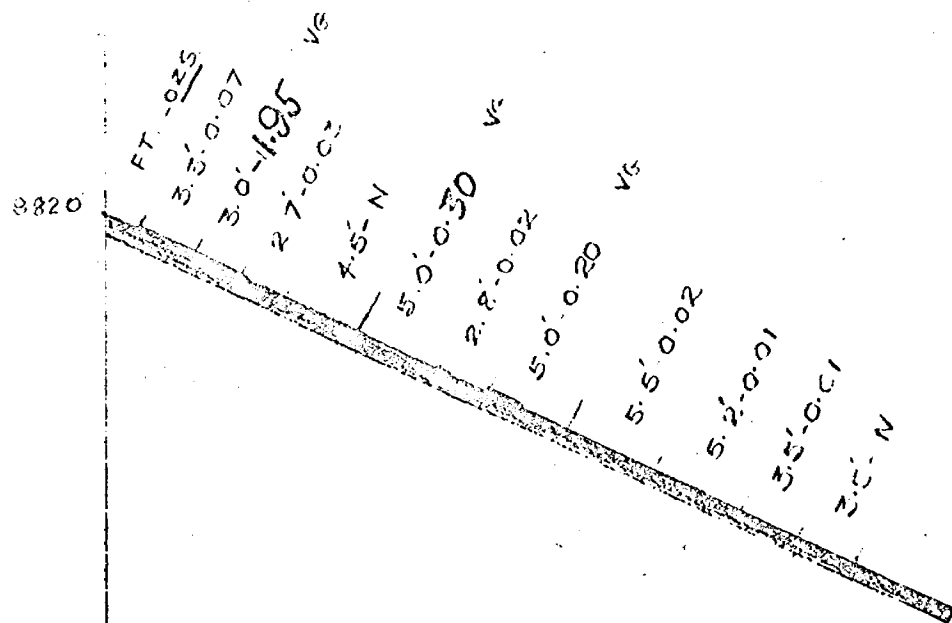
PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SCOPE GOLD \$	
0.0 - 8.3	Cherty seds., altered & sericite, Q-veining & 3.3 - 5.0 Heavy quartz. 6.4 - 4.6	Min.				
8.3 - 8.9	Finger of alt. andesite porphyry.					
8.9 - 9.6	Chert. seds as above.					
9.6 - 14.8	Andesite por., altered.					
14.8 - 15.8	Altered chert. putty coloured.					
15.8 - 39.0	Porphyry, has the appearance of certain albitites but is believed to be more basic, probably a porphyrite, and probably related to andesite. Porphyry above and in other holes MP & Q: Min. & veined.					Spec. 34?
16.0 - 16.6	VG 2.0 - 5.3	1308	3.3	.07	2.45	
20.0 - 20.5	Veining 5.3 - 8.3	1309	3.0	1.95	68.25	VG
25.0 - 25.5	QV with VG 8.3 - 11.0	1314	2.7	.03	1.05	
39.0 - 46.0	Hole deepened from here 11.0 - 15.5 Porphyry as above becoming less min. 15.5-20.5	1315 1310	4.5 5.0	N. .30		
46.0 - 50.2	Ditto but finer grained and containing inclusions of chert.				10.50	VG
50.2 - 52.2	Chert. seds, altered					
	20.5 - 23.3	1311	2.8	.02	.70	
	23.3 - 28.3	1312	5.0	.20	7.00	VG
	28.3 - 33.8	1313	5.5	.02		
	39.0 - 42.5	1340	3.5	.01		
	42.5 - 46.0	1341	3.5	N		
	33.8 - 39.0	1342	5.2	.01		

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY A. Wilson

SIGNED W. Gerrie



PITCHVEIN MINES - MELBA TWP O D H B-60

LATITUDE	9,977 N	DATUM	206E DRIFT	STARTED	Mar. 15-60
DEPARTURE	10,462.5E	READING	N 9° 30' E	COMPLETED	MAR 26-60
ELEVATION	225 Level	DIP	-25°	DEPTH	52.2
				SCALE	1"=10'

LEGEND

- Chert-Altered
- Albitite-Porphyry
- Andesite-Porphyry
- Andesite
- Quartz

DIAMOND DRILL RECORD

PROPERTY PITCHVEIN - MELBA

HOLE NO. C-60

SHEET NUMBER 1

SECTION FROM 0.0 TO 68.0

STARTED Mar. 16-60

LATITUDE 9,976.5 N

DATUM 206 E Drift

COMPLETED Mar. 23-60

DEPARTURE 10,462.5 E

BEARING N 9.5 E

ULTIMATE DEPTH 68.0

ELEVATION 225' Level

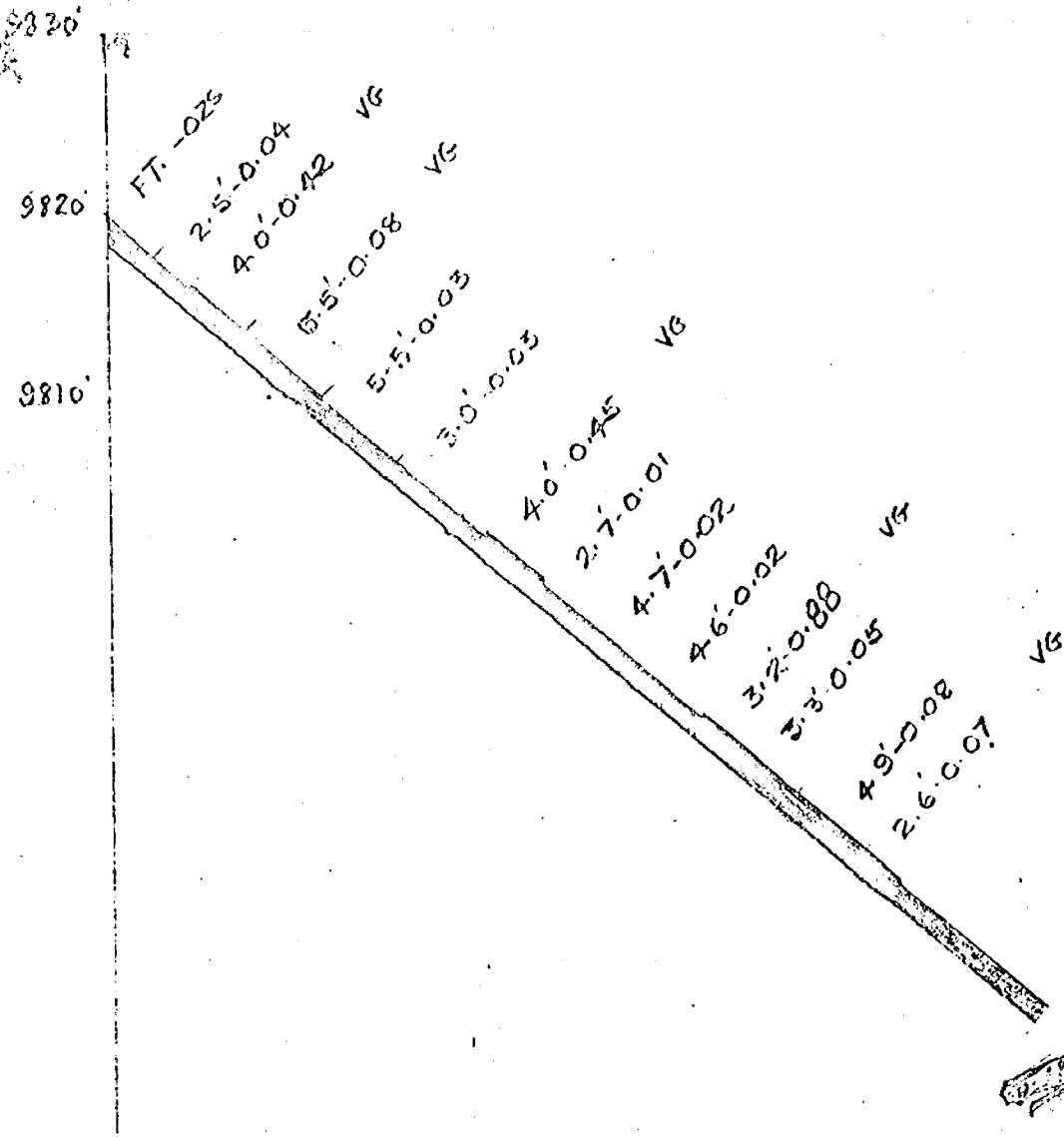
DIP -40

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	TOTAL GOLD %		
0.0 - 17.9	Chert. soda, altered; Much veining & min. - Bedding low angle.						
	6.2 - 10.0 Heavy veining with VG at 9.5						
	12.0 - 16.7 Veined & min. with VG at 14.2						
17.9 - 21.6	Andesite porphyry alt. & sheared, also veined & min.						
21.6 - 25.3	Chert. soda as above 3.5 - 6.0	1323	2.5	.04	1.40		
	21.8 - 23.6 Heavily veined 6.0 - 10.0	1324	4.0	.42	14.70	VG	albite
25.3 - 26.2	Finger of andesite porphyry 10.0 - 15.5	1325	5.5	.08	2.80	VG	
26.2 - 27.2	Chert. soda, alt. & min. 15.5 - 21.0	1326	5.5	.03	1.05		
27.2 - 33.0	Porphyry albite type, min. & veined a bit	VG at 29.0					
	Hole deepened from here 21.0 - 24.0	1327	2.0	.03	1.05		
33.0 - 57.3	Porphyry, albite type, min. & veined 27.3 - 31.3	1328	4.0	.45	15.75	VG	
	44.3 - 44.5 ----- VG 31.3 - 34.0	1329	2.7	.01			
57.3 - 59.8	Porphyry, epidotized and alt. 34.0 - 38.7	1330	4.7	.02			
59.8 - 68.0	Cherty soda, alt. & spidotized some of this material						
	maybe andesitic, 38.7 - 43.3	1331	4.6	.02			
	43.3 - 46.5	1332	3.2	.88	30.80	VG	
	46.5 - 49.8	1333	3.3	.05	1.75		
	49.8 - 54.7	1334	4.9	.08	2.00		
	54.7 - 57.3	1335	2.6	.07	2.45	VG	

A. Wilson

SIGNED W. Corrie



PITCHVEIN MINES - MENEER TWP

D.D.H. C-60

LATITUDE 9, 976.511

DATUM 206E DRIFT

STARTED Mar. 16-60

DEPARTURE 10, 462.5E

BEARING N 9° 30' E

COMPLETED Mar. 23-60

ELEV ON 225' Level

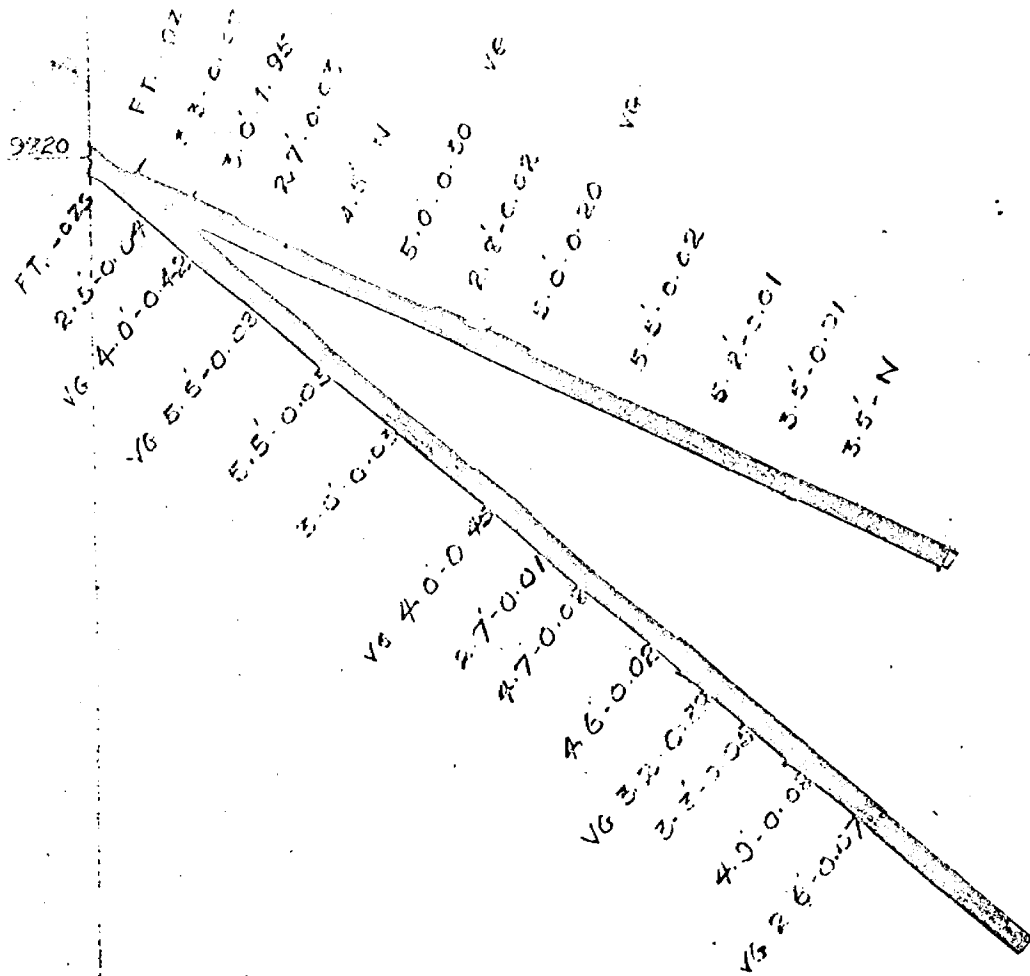
DIP -40°

DEPTH 68.0

SCALE 1" = 10'

LEGEND

- Chert-Altered
- Albitite-Porphry
- Andesite-Porphry
- Andesite
- Quartz



FITCHVILLE MINES - MELBA TWP

DATUM 206E DRIFT

BEARING N 9° 30' E

ELEVATION - 225' Level

Scale 1" = 10'

LEGEND

- Chert-Altered
- Albitite-Porphry
- Andesite-Porphry
- Andesite
- Quartz

DDHS B-60 C-60
Dip 25° - 40°

DIAMOND DRILL RECORD

PROPERTY PITCHVEIN - MELBA HOLE NO. B-60

SHEET NUMBER 1 SECTION FROM 0.0 TO 116.0 STARTED Mar. 19-60
 LATITUDE 9,976 N DATUM 805 E Drift COMPLETED Mar. 22-60
 DEPARTURE 10,450.5 E BEARING N 36° W ULTIMATE DEPTH 116.0
 ELEVATION 225° level DIP -20° PROPOSED DEPTH _____

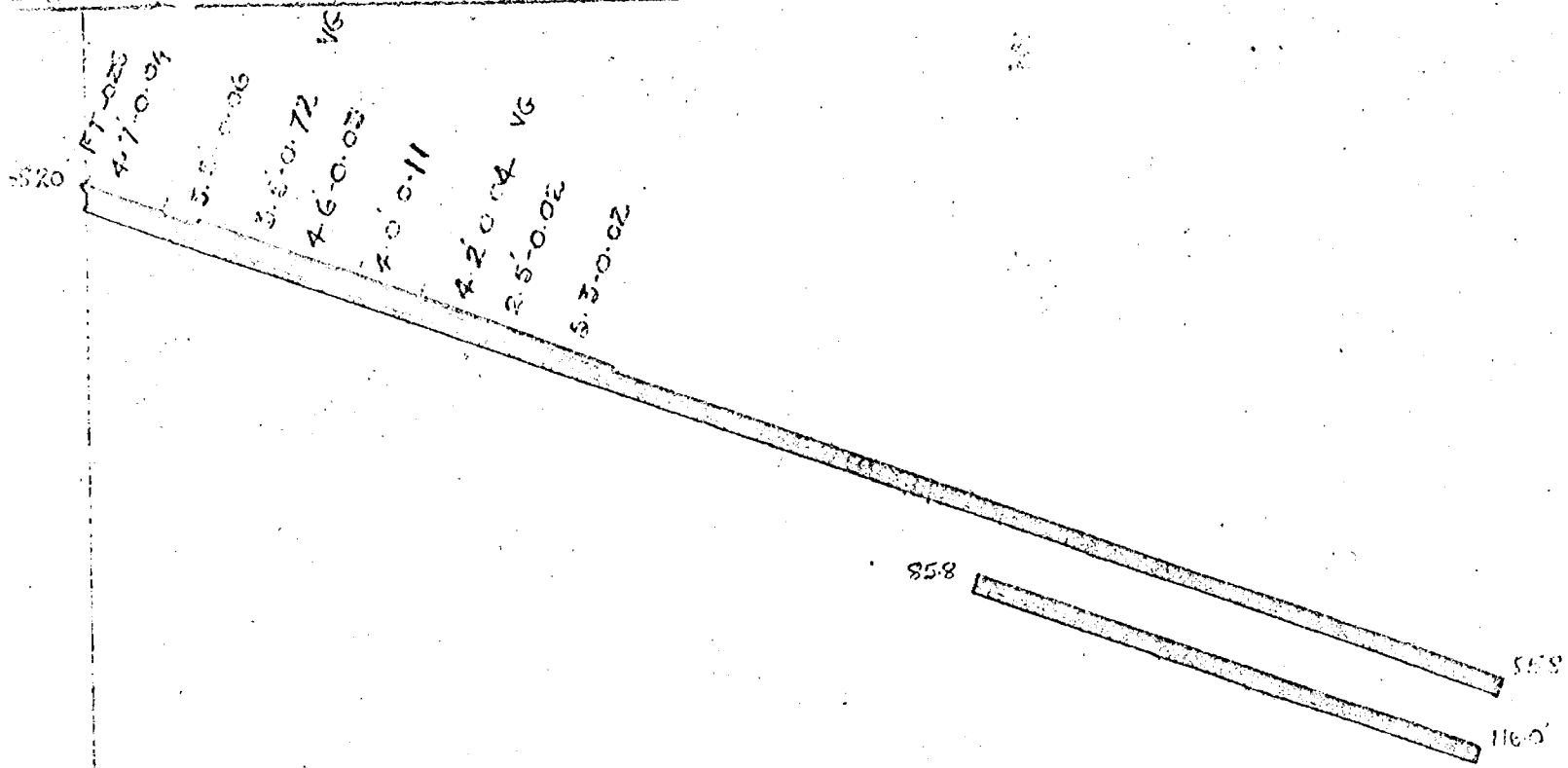
DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	ESTIMATED GOLD \$
0.0 - 4.7	Qtz. & sheared carb. ^{Chert} FeS ₂ & FeS ₂	1316	4.7	.04	1.60
4.7 - 8.2	Sheared alt. porph. & carb.	1317	3.5	.06	2.10
8.2 - 11.7	Mostly white quartz - Several SP-VG	1318	3.5	.72	25.20
11.7 - 16.3	Mostly white quartz	1319	4.6	.03	1.05
16.3 - 20.3	1" Black qtz. followed by alt. porph.	1320	5.0	.11	3.85
20.3 - 24.5	Alt. grey porph. & qtz. str. Sav. SP-VG	1321	4.2	.04	1.60
24.5 - 27.0	Ditto	1322	2.5	.02	
27.0 - 32.3	Ditto. (Fold)	1343	5.3	.02	
32.3 - 45.2	Porph. showing greenish epidote influence and black & white qtz. str. - angles both sharp & lean to core. Grey porph. seems to end @ 38.6				
45.2 - 56.3	^{Chert} Dark porph. breccia and intermixed bands of soda. & porph.				
56.3 - 60.5	Porphyry.				
60.5 - 62.8	Soda. buff-colored.				
62.8 - 64.3	Porphyry.				
64.3 - 74.8	Soda. with brecciated sections.				
74.8 - 85.8	F.G. grey and porph.				
85.8 - 116.0	Soda, variegated - locally brecc. core calcite str. Soft & carbonizing, as in "B" END OF HOLE.				

N.M.P., TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY A. Wilson

SIGNED D. F. Hurd

7/6



D-60 - ABANDONED
(CARVING)

PITCHVEIN MINES, MELFA TWP.

DLH E-60

STARTED Mar 19-60

COMPLETED Mar 22-60

LATITUDE 9,976 N

DATUM 206E DRIFT

DEPARTURE 10,452.5F

BEARING N 36° N

ELEVATION 225' Level

DIP -20°

DEPTH 1160'

SCALE 1" = 10'

LEGEND

- Chert-Altered
- Albitite-Porphry
- Andesite-Porphry
- Andesite
- Quartz

DIAMOND DRILL RECORD

PROPERTY PITCHVILL - BALDA HOLE NO. P-60

SHEET NUMBER 1 SECTION FROM 0.0 TO 93.2 STARTED Mar. 23-60
 LATITUDE 9,977.5 N DATUM 206 B Drift COMPLETED Mar. 25-60
 DEPARTURE 10,664.5 E BEARING N 39° E ULTIMATE DEPTH 93.2
 ELEVATION 2259 level DIP -20° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	GOLD \$
0.0 - 2.9	Dark soda. - altered chert.	1344	4.3	.06	2.50
2.9 - 7.2	Sheared alt. porph. & qtz. str. FeS ₂	1345	4.4	.20	7.00
7.2 - 11.6	1.2 ft. V. qtz. followed by sheared alt. soda & porph.				
11.6 - 18.2	Porphyry - folds. phenocrysts soda str.				
18.2 - 22.7	Altered chert. - buff colored - alt. soda.	1346	2.0	.12	4.20
22.7 - 24.7	Porphyry & qtz. str.	1347	2.3	.02	.70
24.7 - 27.0	Porphyry & qtz. str.				
27.0 - 28.2	Buff - altered chert. soda.				
28.2 - 33.5	Porph. - small patches soda. mixed.				
33.5 - 36.0	Brown. soda.				
36.0 - 60.0	Alt. and locally brown.				
	Mostly soda. - some patches porph. - blue & white qtz. str. long to coarse.				
	VG with chalc. & blue vein 38.7 - 40.2	1348	1.5	.08	2.60
60.0 - 93.2	Soda. - darkening - some calc. str.				
	local patches brecciated. Brecc. at 93.2				
	END OF HOLE				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY A. Wilson

SIGNED D. F. Hurd

15

3320

FT-025

R 3'-0.06

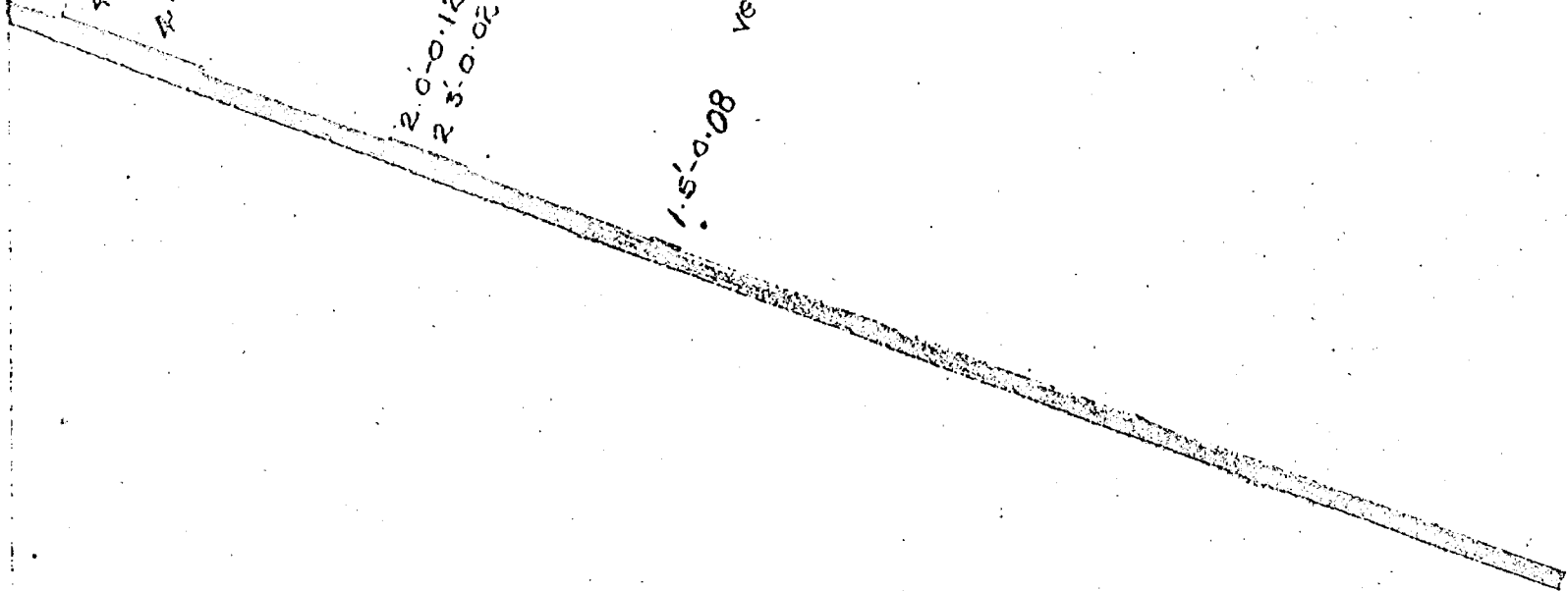
R 1'-0.20

2'-0'-0.12

R 3'-0.06

1'-5'-0.08 VS

3320



PITCHVEIN MINES - MELBA TWP

D.D.H. F-60

STARTED Mar 23-60

COMPLETED Mar 25-60

LATITUDE 9.9775'N

DATUM 206E DRIFT

DEPARTURE 10465.5E

BEARING N 39°E

DEPTH 93.2'

ELEVATION 825 Level

DIP -20°

Scale 1"=10'

LEGEND

- Chert-Altered
- Albitite-Porphyry
- Andesite-Porphyry
- Andesite
- Quartz

5722
FT-025
2.5-0.05
4.5- N
3.0- N

2.5-0.005 VG

PITCHVEIN MINES MELBA TWP.

DDH G-60

STARTED Mar. 28-60

COMPLETED Mar. 29-60

LATITUDE 9,973.5N

DATUM 206E DRIFT

DEPARTURE 10,281.5E

BEARING N15°30'W

DEPTH 56.0'

ELEVATION 225' Level

DIP 180° FLAT

Scale 1"=10'

LEGEND

- Chert-Altered
- Albitite-Porphyry
- Andesite-Porphyry
- Andesite
- Quartz

DIAMOND DRILL RECORD

PROPERTY PYTCHVEJIE .. HELPA HOLE NO. H-60

SHEET NUMBER 2 SECTION FROM 0.0 TO 44.9 STARTED March 29-60
 LATITUDE 30,040 N DATUM 205 HXC COMPLETED March 30-60
 DEPARTURE 30,351 E BEARING S 59°W5 ULTIMATE DEPTH 44.9
 ELEVATION 225° Level DIP 45° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	GOLD g	VG
0.0 - 9.9	Altered chert, qtz. veins 1"-2" at 2.5', 6.5' & 8.6' porphyry at 8.6' - Altered chert, porphyry contact at 9.9'					
9.9 - 34.5	Grey porphyry-silic & min. showing good amount quartz veins VG @ 15.6'					
34.5 - 36.7	13B. qtz. vein - Qtz. & altered chert. & FeS ₂					
36.7 - 41.0	Sheared & altered chert. - iron min.					
41.0 - 44.9	Porphyry. END OF HOLE.					
	9.9 - 11.9	1349	2.0	.04		
	11.9 - 17.5	1350	5.6	.05	3.75	VG
	17.5 - 22.5	1351	5.0	.02		
	34.2 - 36.7	1352	2.5	.07	2.45	VG
	36.7 - 41.0	1353	4.3	.04		

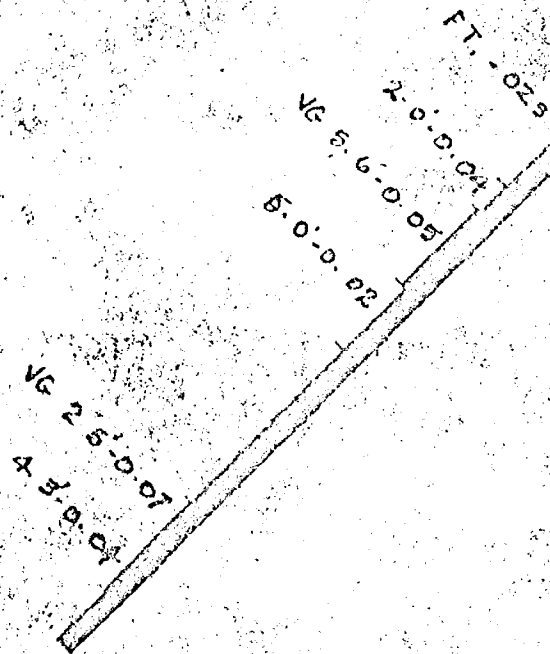
N.M.P. TORONTO - STOCK P. NO. 501 REV. 12/51

DRILLED BY

 L. Wilson

SIGNED

 D. F. Burr



PITCHVEIN MINES - MELBA TWP

D.M. H-60

STARTED Mar. 29-60

COMPLETED May 30-60

DEPTH 449'

Scale 1"=10'

LATITUDE 10,040 N

DATUM 205NXC

DEPARTURE 10,351 E

BEARING S59°W

ELEVATION 525' Level

DIP -45°

LEGEND

- Chert-Altered
- Albitite-Porphry
- Andesite-Porphry
- Andesite
- Quartz

DIAMOND DRILL RECORD

PROPERTY BYECHVENI - MELBA HOLE NO. I-60

SHEET NUMBER 1 SECTION FROM 0.0 TO 45.8 STARTED Mar. 31-60
 LATITUDE 10,040 N DATUM 205 WGS COMPLETED Apr. 1-60
 DEPARTURE 10,252 E BEARING S 4° W ULTIMATE DEPTH 45.8
 ELEVATION 2250 Level DIP 45° PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	AGGREGATE GOLD g		
0.0 - 9.6	Altered chert. - locally sil. & altered 5.2 - 6.3 vein 1.1 ^g Porph. & qtz. - Alt. chert. sample						
	Altered chert. - porphyry cont. at 9.4 ^g						
9.6 - 12.7	Porphyry						
12.7 - 17.3	Vein alt. porphyry qtz. & alt. chert. (both white & black qtz.) VG at 14.0 ^g						
17.3 - 18.3	Porphyry						
18.3 - 20.3	Alt. chert.						
20.3 - 21.4	Porphyry - large light green phenocrysts foldapar.						
21.4 - 30.0	Vein - interbedded qtz. Alt. chert. & porphyry VG at 24.7 g			25.5			
30.0 - 45.8	Alt. chert. END OF HOLE.						
	5.2 - 6.3	1354	1.1	.02			
	12.7 - 17.3	1355	4.6	.06	2.10	VG	
	21.4 - 24.4	1356	3.0	.02			
	24.4 - 27.4	1357	3.0	.66	16.10	VG	
	27.4 - 30.0	1358	2.6	.01			

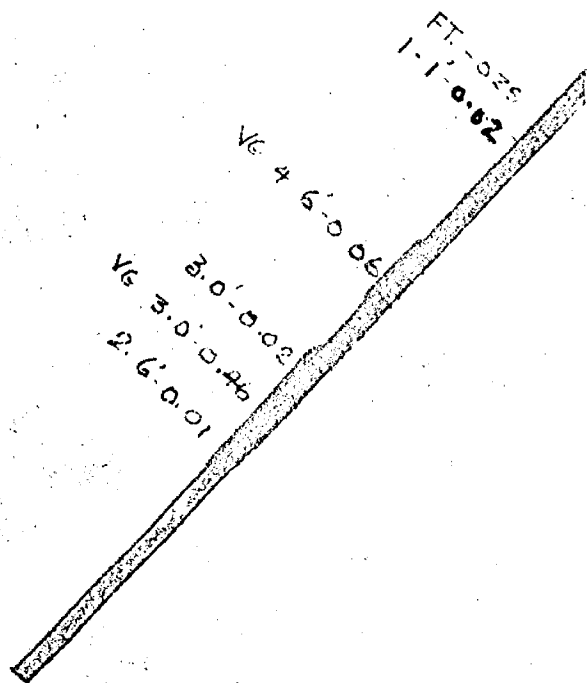
N.P.F. TORONTO - STOCK FORM NO. 501 REV. 12/51

DRILLED BY A. Wilson

SIGNED D. P. Ward

1820

3820



FITCHVILLE MINES MILL #1 SHAFT DDH I-60

STARTED Mar 31-60

COMPLETED Apr 1-60

DEPTH 45.3'

SCALE 1:10'

LATITUDE 19.640N

DATUM 205NRC

DEPARTURE 10,351 E

BEARING S 4° W

ELEVATION 225' Level

DIP -45°

LEGEND

- Chert-Altered
- Albitite-Porphry
- Andesite-Porphry
- Andesite
- Quartz

DIAMOND DRILL RECORD

PROPERTY PITCHVEIN - NELESA

HOLE NO. J-60

SHEET NUMBER 1

SECTION FROM 0.0 TO 44.0

STARTED Apr. 1-60

LATITUDE 10,040 N

DATUM 205 IXC

COMPLETED Apr. 2-60

DEPARTURE 20,352 E

BEARING S 11° E

ULTIMATE DEPTH 44.0

ELEVATION 225° Level

DIP 45°

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	FINEST GOLD g
0.0 - 9.9	Alt. chert. - 5° grey porph. at 5.6° .4° veinings @ 0.5° .5° W vein @ 4.5 .9° W vein @ 9.0 - 9.9				
9.9 - 11.6	Grey porph. sparse qtz.				
11.6 - 17.5	Grey porph. and quartz. veinings - 11.4-16.7 mostly quartz. vein @ 15.9 in black qtz. Qtz. calcite vein @ 15.2				
17.5 - 22.7	Alt. chert. coarse qtz. stro. .4° coarse porph. @ 19.5°				
22.7 - 27.7	Vein & grey porph. good veinings 22.7 - 25.7				
27.7 - 30.2	Grey porphyry.				
30.2 - 34.5	Chert.				
34.5 - 36.5	Porphyry.				
36.5 - 44.0	Alt. chert. thin & narrow veinings @ 41.0° END OF HOLE				
		6.0 - 1.5	1369	1.5	.01
		3.8 - 4.8	1370	1.0	.07
		6.4 - 11.4	1371	3.0	.02
		11.4 - 14.0	1372	2.6	.03
		14.0 - 17.5	1373	3.5	.02
		17.5 - 22.7	1374	5.2	.07
		22.7 - 25.7	1375	3.0	.23
					10.15

U.S.G. GEOLOGICAL SURVEY FORM NO. 301 REV. 12/51

DRILLED BY

A. Wilson

SIGHTED

D. F. Ruyd

9820

FT-021
 1.5' 0.01
 1.0' 0.07
 3.0' 0.02
 2.5' 0.03
 3.5' 0.02
 5.2' 0.07
 3.0' 0.29

LEGEND

- Chert-Altered
- Albitite-Porphry
- Andesite-Porphry
- Andesite
- Quartz

PITCHVEIN MINES TADLEY TWP

D.M.H. J-60

STARTED Apr 1-60

LATITUDE 10,020 N

DATION 205 HXC

COMPLETED Apr 2, 60

DEPARTURE 10,511 E

BEARING S 11° E

DEPTH 440'

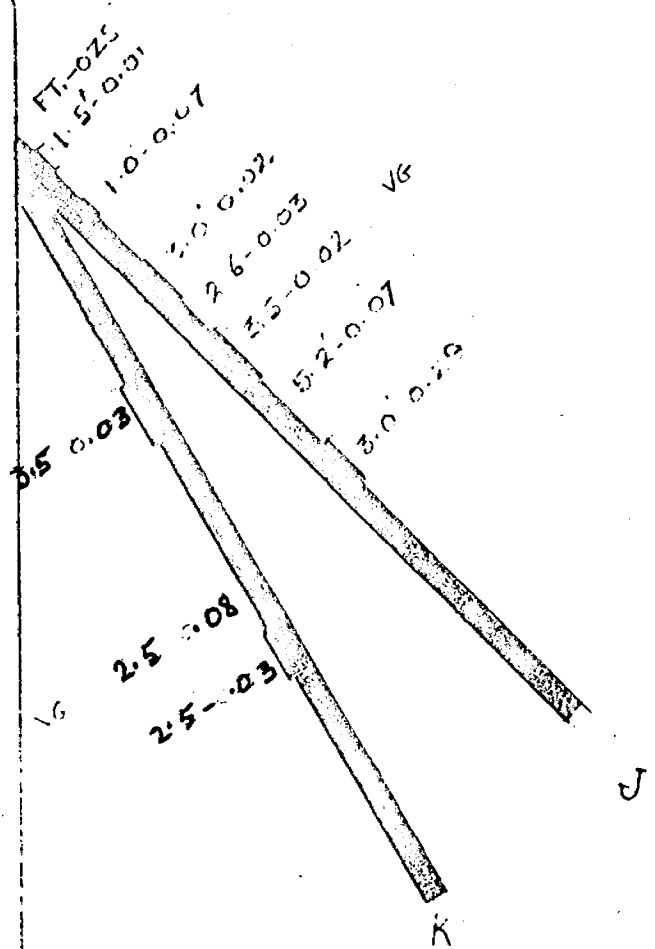
LONGITUDE 232,000 W

DIP 45°

Scale 1"=10'

SS 20'

3820'



SECTION THROUGH ...

D.D.M: J-60
K-60

LATITUDE 10040N

DATUM 205 NYC

DEPARTURE 102.1E

BEARING 011 E
J-60 K-60

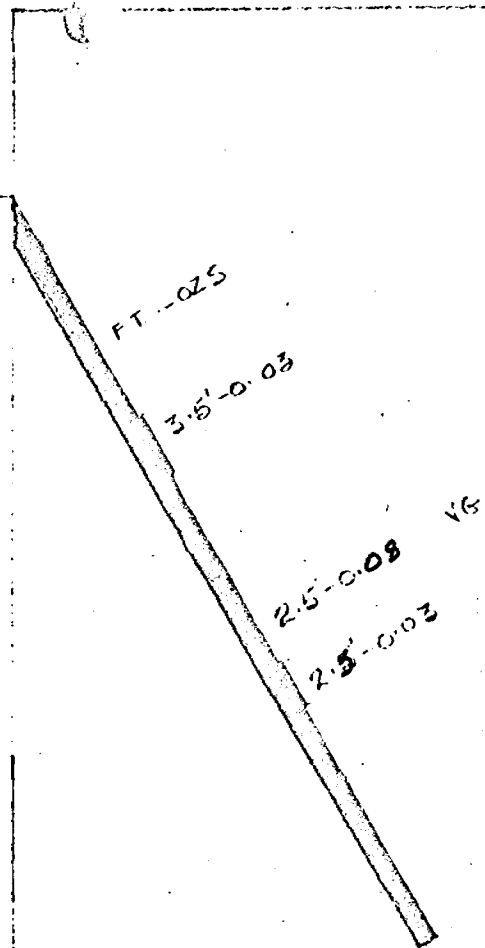
ELEVATION 325 LEVEL

Dip = 45° - 60°

Scale 1" = 10'

LEGEND

- Chert-Altered
- Albitite-forphyry
- Andesite-forphyry
- Andesite
- Quartz



FITCHVEIN MINES - MELBA TWP

K
L.M. K-60

STARTED Apr. 2-60

COMPLETED Apr 4-60

DEPTH 47.0'

Scale 1" = 10'

LATITUDE 10,840N

DEPARTURE 10,351E

ELEVATION 225' LEVEL

DATUM 205 NXC

BEARING S11°E

DIP -60°

LEGEND

- Chert-Altered
- Albitite-Porphry
- Andesite-Porphry
- Andesite
- Quartz

DIAMOND DRILL RECORD

PROPERTY EXCHURCH - LILDA HOLE NO. L-60

SHEET NUMBER 1 SECTION FROM 0.0 TO 51.0 STARTED Apr. 5-60
 LATITUDE 10,000 N DATUM 205 IXC COMPLETED Apr. 5-60
 DEPARTURE 10,251 E BEARING S 26° E ULTIMATE DEPTH 51.0
 ELEVATION 225' Level DIP -45° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	PERCENTAGE GOLD %
0.0 - 10.2	Alt. chert. 5° porphyry @ 7.5°				
10.2 - 12.6	Porphyry.				
12.6 - 15.8	Gra. vein str.				
15.8 - 21.4	Alt. chert. @ vein @ 25.5				
21.4 - 22.6	Porphyry.				
22.6 - 24.4	Alt. chert.				
24.4 - 26.8	Porphyry.				
26.8 - 40.5	Alt. chert.				
40.5 - 42.6	Porphyry, some gra. str.				
42.6 - 43.5	Alt. chert.				
43.5 - 51.0	Porphyry, changing to alt. chert.				
	END OF HOLE.				
		1379	2.2	.04	1.40
		1380	2.7	.09	3.15
		1381	3.8	.04	1.40
		1382	3.8	.66	2.10
		1383	2.8	.02	
					VG @ 25.3

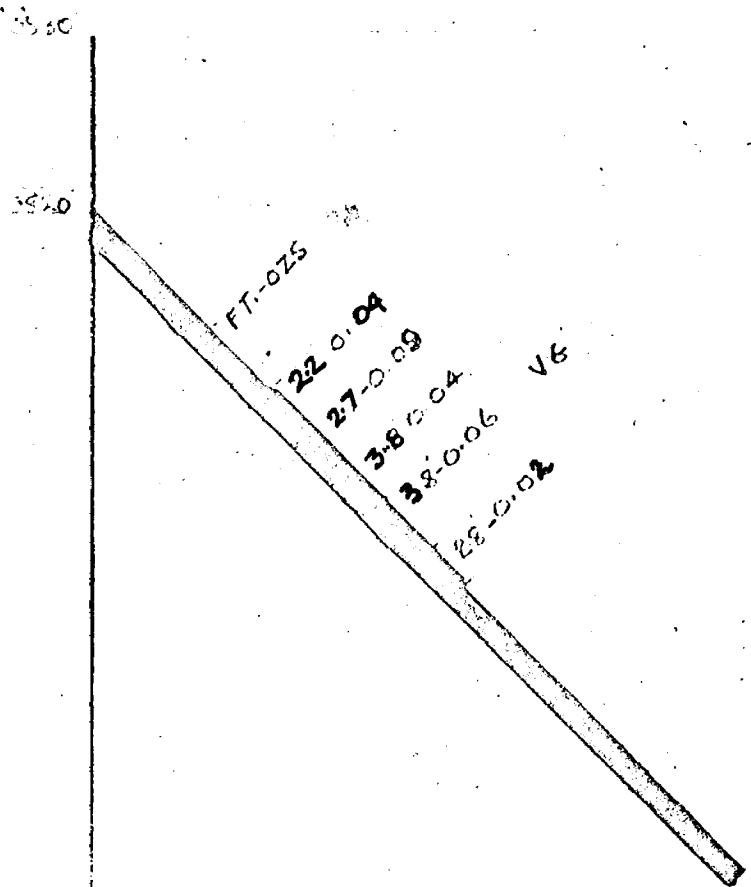
N.M.F. TORONTO-STOCK FORM NO. 501 (REV. 12-57)

DRILLED BY

A. Wilson

SIGNED

D. F. Ward



LEGEND

- Chert-Altered
- Albitite-Forphyry
- Andesite-Forphyry
- Argesite
- Quartz

PITCHVEIN MINES MCLAREN TWP

L
D.D.H. 1260

STARTED Apr 8-60

COMPLETED Apr 15-60

DEPTH 510

Scale 1" = 10'

ELEVATION 10640 ft

LONGITUDE 2051100

TEMPERATURE 103.5 F

READING 52.2 F

FLUID TYPE 225' level

DIP -45°

DIAMOND DRILL RECORD

PROPERTY PITCHVEIN - HELDA HOLE NO. M-60

SHEET NUMBER 1 SECTION FROM 0.0 TO 41.7 STARTED Apr. 6-60
 LATITUDE 10,040 N DATUM 205 NYC COMPLETED Apr. 7-60
 DEPARTURE 10,351 E BEARING S 41° E ULTIMATE DEPTH 59.0'
 ELEVATION 225' Level DIP -53° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD %	ASSAY GOLD %
0.0 - 12.5	Bedded alt. chert. at 8.0' beds are inclined 45° to side of core & tops are south - Considerable fracturing, minor faulting with opening & some veining. 5.0 - 7.3 veining with main vein at 6.7' 10.4 - 10.9 - Min. intrusive with some veining extending to 11.2' --- 11.7 Bedding at 35°				Spec. 8'
12.5 - 18.1	Granitic grey intrusive, upper and lower contacts have white chert-like phenos. Centre resembles grey syenite - upper contact 19-20° with left hand faulting, lower is indistinct 15.5 - 17.4 Quartz veining.				
18.1 - 21.9	Alt. beds as above with veining & Fr 18.1 - 20.7 19.0 - 20.2 Heavy veining with V8				
21.9 - 22.9	Grey intrusive.				
22.9 - 27.0	Alt. beds as above, much brecciated.				
27.0 - 27.8	Edge of grey intrusive, contacts are roughly 60°				
27.8 - 37.9	Alt. cherty beds, note bedding at 35.0° with left hand step faulting. 28.0 - 32.7 Veined section 50% Q. - Some FeS ₂ noted at 32.5'				
37.9 - 40.5	Grey intrusive, little darker than previous upper contact 55, lower 60. Upper half is min. & veined as are beds. above contact.				
40.5 - 41.0	Alt. chert.				
41.0 - 41.7	Grey intrusive, lower contact is 30°				Spec. 49.5'

CONTINUED

N.M.P. TORONTO - STOCK FORM NO. 501 REV. 12/51

DRILLED BY A. Wilson

SIGNED W. Gerrie

DIAMOND DRILL RECORD

PROPERTY PITCHVEEN - MBLBA HOLE NO. 12-60 Cont.

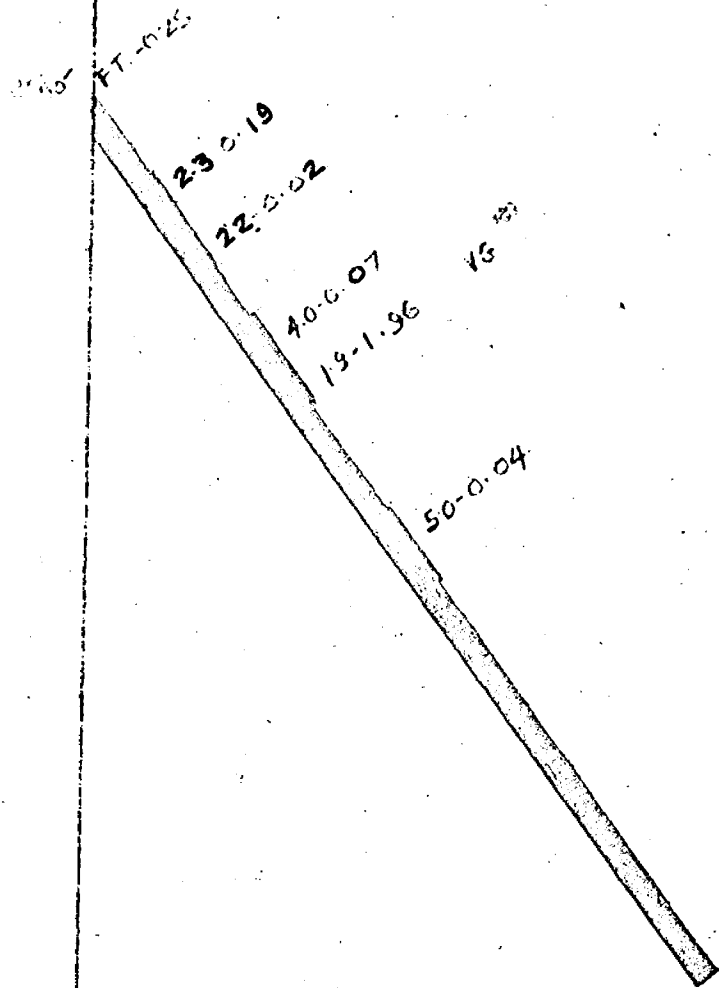
SHEET NUMBER 2 SECTION FROM N. 41.7 TO 59.0 STARTED Apr. 6-60
 LATITUDE 10,040 N DATUM 205 MXC COMPLETED Apr. 7-60
 DEPARTURE 10,351 E BEARING -53° ULTIMATE DEPTH 59.0'
 ELEVATION 225' Level DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD g	GRAVITY GOLD g	
41.7 - 48.0	Alt. chert, beds are flattening 30 down to 10 at 45.0' 4-5" quartz at lower contact.				Spec.	50.2
48.0 - 54.4	Greenish gray intrusive upper contact 50°, lower 40° Vesic. Well shaped phenoc. at lower contact.					
54.4 - 58.9	Alt. chert, brecciated with low angle beds.					
58.9 - 59.0	Porphyry intrusive.					
	END OF HOLE					
	5.1 - 7.4	1401	2.3	.19	6.65	
	9.3 - 11.5	1402	2.2	.02		
	14.8 - 18.8	1403	4.0	.07	2.15	VG
	18.8 - 20.7	1404	1.9	1.96	68.60	VG
	27.7 - 32.7	1405	5.0	.04		

DRILLED BY A. Wilson

SIGNED W. Gerrie

2170



PIKE VEIN MINES

HELEN TWB

U. D. H. M 60

STARTED Apr 6 60

COMPLETED Apr 7. 60

DEPTH 59.0

Scale 1"=10'

LATITUDE 10,044'N

DATUM 2025 MXC

DEPARTURE 10,651'E

BEARING S41°E

ELEVATION 225' LEVEL

DIP -53°

LEGEND

- Chert-Altered
- Albitite-Porphry
- Andesite-Porphry
- Andesite
- Quartz

DIAMOND DRILL RECORD

N-60

PROPERTY PESCHERE - MILLER HOLE NO. 11-60

SHEET NUMBER 1 SECTION FROM 0.0 TO 42.4 STARTED Apr 7-60
 LATITUDE 10,640 N DATUM 205 NYC COMPLETED Apr 7-60
 DEPARTURE 10,352 E BEARING S 34° W ULTIMATE DEPTH 42.4
 ELEVATION 2250 Level DIP -45° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	SAMPLE GOLD g	
0.0 - 8.1	Alt. chert. - .6° breccia & qtz. str. @ 2.3° .6° porphyry @ 3.6° .3° vs qtz. & alt. chert. @ 6.5 - Breccia & silice to 8.1					
8.1 - 21.8	Gray porphyry fin qtz. & porphyry 8.1 - 14.7 massive qtz. str. to 18.7					
21.8 - 22.7	Alt. chert.					
22.7 - 26.7	Coarse porphyry.					
26.7 - 27.2	Alt. chert.					
27.2 - 28.0	Coarse porphyry qtz vein @ 28.0° - 28.8° (VG @ 28.2°)					
28.0 - 35.4	Alt. chert. - Mn. & veining 32.8 - 35.4					
35.4 - 37.7	Gray porphyry.					
37.7 - 42.4	Alt. chert.					
	END OF HOLE					
	6.0 - 8.1	1363	2.1	.01		
	8.1 - 10.7	1364	2.6	.04	1.40	
	10.7 - 14.7	NOF 1365	4.0	.04	1.40	
	14.7 - 19.2	1366	4.5	.02		
	27.5 - 28.8	1367	1.5	.06	2.10	VG
	32.8 - 35.4	1368	2.6	.01		

I.M.P. TORONTO STOCK FORM NO. 501 REV. 12/51

DRILLED BY A. Wilson SIGNED D. P. Ward

DIAMOND DRILL RECORD

PROPERTY PITCHVEIN, MELIDA HOLE NO. 0-60

SHEET NUMBER 1 SECTION FROM 0.0 TO 72.7 STARTED Apr. 8-60
 LATITUDE 10,040 N DATUM 205 NYC COMPLETED Apr. 11-60
 DEPARTURE 10,351 E BEARING S 79° W ULTIMATE DEPTH 72.7
 ELEVATION 225' Level DIP 45° PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE N.	WIDTH OF SAMPLE	GOLD g	PERCENT GOLD %	
0.0 - 15.0	Alt. chert. VG at 3.3' -- VG at 5.7'					
	1.5' of porphyry at 9.5' - 10.8'					
15.0 - 33.0	Porphyry fg grey - some qtz. strc.					
	Good qtz. veining in porph. above lower contact @ 33.0'					
33.0 - 42.2	Alt. chert. (Contract arg. porphyry @ 42.2') qtz. - calcite veins at 42.0'					
	Good qtz. & min. starts at 41.2'					
42.2 - 44.5	Qtz. veining & min. grey porphyry. VG @ 43.1'		1' lost core.			
44.5 - 47.0	Alt. chert.					
47.0 - 48.0	Coarse porphyry - large phenos.					
48.0 - 72.7	Alt. chert. 1' coarse porphyry at 52.0'					
	Fine min. & qtz. strc. 60.8 - 61.9'					
	Wall min. qtz. strc. @ 72.0'					
	END OF HOLE					
	2.5 - 6.5	1359	4.0	.27	9.45	VG
	1' lost core 41.2 - 44.5 Note	1360	3.3	.054	1.40	VG
	60.8 - 61.9	1361	1.1	---	---	
	30.7 - 33.0	1362	2.3	.01	.35	

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY

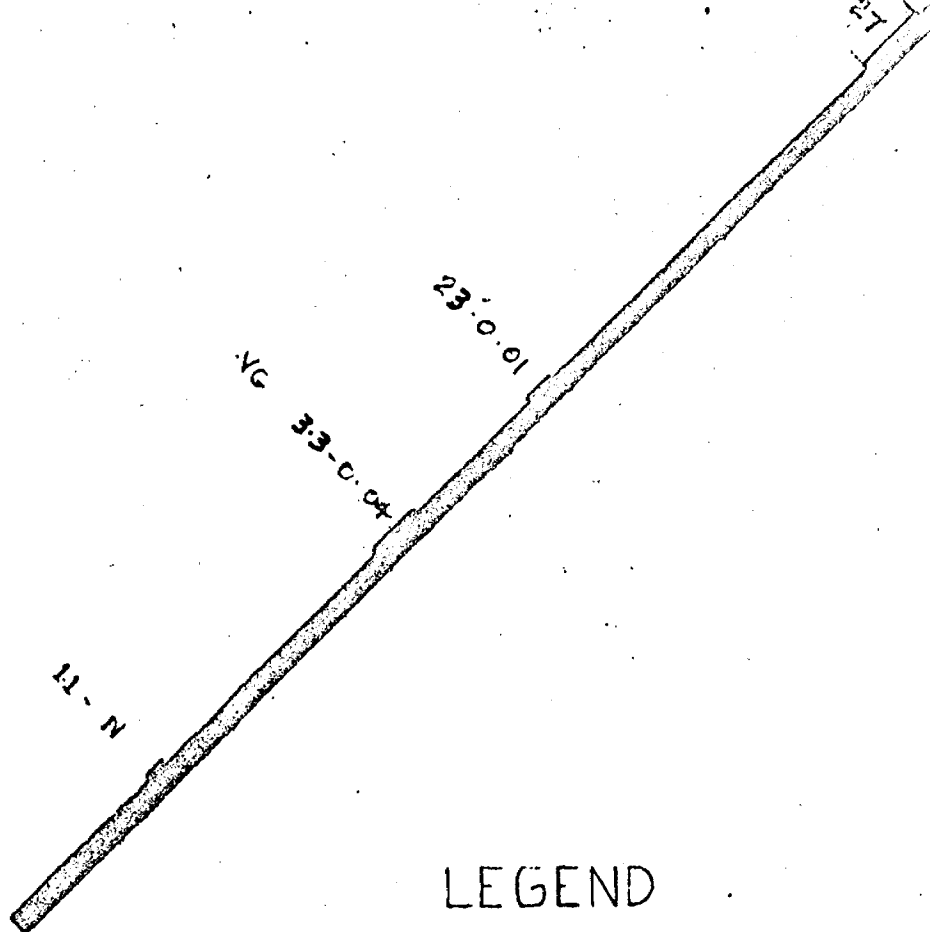
A. Wilson

SIGNED

D. P. Hurd

9220

VC 40'-0.27



PITCHVEIN MINES MELBA TWP.

1144 0-60

STARTED Apr 8-60

COMPLETED Apr 11-60

DEPTH 72.7'

Scale 1"=10'

LATITUDE 10,040 N

DATUM 205NXC






DEPARTURE 10,351 E

BEARING S79°W

ELEVATION 225' level

Dip -45°

LEGEND

-  Chert-Altered
-  Albitite-Porphry
-  Andesite-Porphry
-  Andesite
-  Quartz

DIAMOND DRILL RECORD

 PROPERTY PITCHVEEN - MELBA

 HOLE NO. P-60

 SHEET NUMBER 1

 SECTION FROM 0.0 TO 99.5

 STARTED Apr. 11-60

 LATITUDE 10,210 N

 DATUM 204 N Drift W

 COMPLETED Apr. 13-60

 DEPARTURE 10,082 E

 BEARING N 16 E

 ULTIMATE DEPTH 99.5

 ELEVATION 2250 Level

 DIP 180°

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	PERCENT GOLD g	
0.0 - 4.4	Alt. cherty soda beds at 25° finger of por. andonite		at 3.0° and 4.0°			
4.4 - 7.0	Andonite. Appears intensive, little veining at 5.5		5.8			
7.0 - 10.2	Alt. chert. mostly brecciated with matrix filled with and. porphyry. Some small veins and mineralized.					
10.2 - 16.3	Andonite, somewhat massive but also a bit porphyritic.					
16.3 - 27.3	Chert. alt. & Brecc. with matrix. andonitic as above.					
27.3 - 37.2	Andonite a little porphyritic with dark phenocrysts particularly. some minor g-veining.				Spec. 32°	
37.2 - 49.0	Washed material, andonite porphyry and highly alt. chert. 50° 50° A little light veining down to 45.0°					
49.0 - 72.7	Chert. soda, mostly, Fe. & highly altered, matrix in part filled with andonite porphyry.					
	g-veining 25-30%	51.6 - 53.8	1408	2.2	.02	51.6 - 53.8
	g-veining	55.8 - 57.5	1409	4.3	.01	68.0 - 72.3
	Moderate cherting & veining at 60°	67.5 - 69.5	1410	1.7	.02	92.0 - 93.7
	g-veining	70.4 - 72.2				
72.7 - 75.3	Andonite porphyry, cherted and veined.					
75.3 - 99.5	Andonite porphyry, gray & massive, some chert. inclusions.					
	86.2 - 92.1					Scattered veining.
	92.1 - 93.7					Quartz 90% some dark coating.
	END OF HOLE					

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12-51

DRILLED BY

A. Wilson

SIGNED

V. Gerrie

FT-025

22-0-02

43-0-01

47-0-02

COLLAR

LEGEND

- Chert-Altered
- Albitite-Porphry
- Anaesite-Porphry
- Andesite
- Quartz

FITCHVEIN MINES HOLDING CO. D.A.H. P. 60

STARTED Apr. 11-60

COMPLETED Apr. 13-60

LATITUDE 10,212 N

DATUM 204 N-DRIFTW

DEPARTURE 10,022 E

BEARING N16° E

DEPTH 99.5'

ELEVATION 225' Level

DIP 180° FLAT

Scale 1"=10'

DIAMOND DRILL RECORD

PROPERTY PEKCHVENI, HELMA HOLE NO. Q-60 Q-60
 SHEET NUMBER 2 SECTION FROM 0.0 TO 60.7 STARTED Apr. 24/60
 LATITUDE 10,143 N DATUM 201 IXC COMPLETED Apr. 26-60
 DEPARTURE 30,116 E BEARING N 73 E ULTIMATE DEPTH 60.7'
 ELEVATION 2250' above DIP + 30 (Uphole) PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD G	PERCENT GOLD G	
0.0 - 5.4	Alt. cherty beds with low angle bedding, considerable brecc. & alt.					
5.4 - 10.2	Grey calcite porphyry; upper contact obscure about 45°, lower 50°				Spec.	80
10.2 - 23.0	Cherty beds, as above but more veining, 19.3 - MoS ₂					
	15.8 - 19.3 veined section .25% Fe - Note raised min. around 17.5					
	Pyrite granulation, chalc. & FeS					
	23.0 - 23.8 veined section.					
23.8 - 31.3	Porphyry as above but more variegated with darker sections. Particularly at contacts, upper contact about 45° lower at 30°					
	Notes: Mn. veining and VG at 24.1 - 24.3					
31.3 - 60.7	Cherty beds as above, low angle beds 0-10 at 50-55					
	High breccia core.					
		15.1 - 19.1	1406	4.0	.03	
		23.0 - 24.3	1407	1.3	3.46	121.10 VG

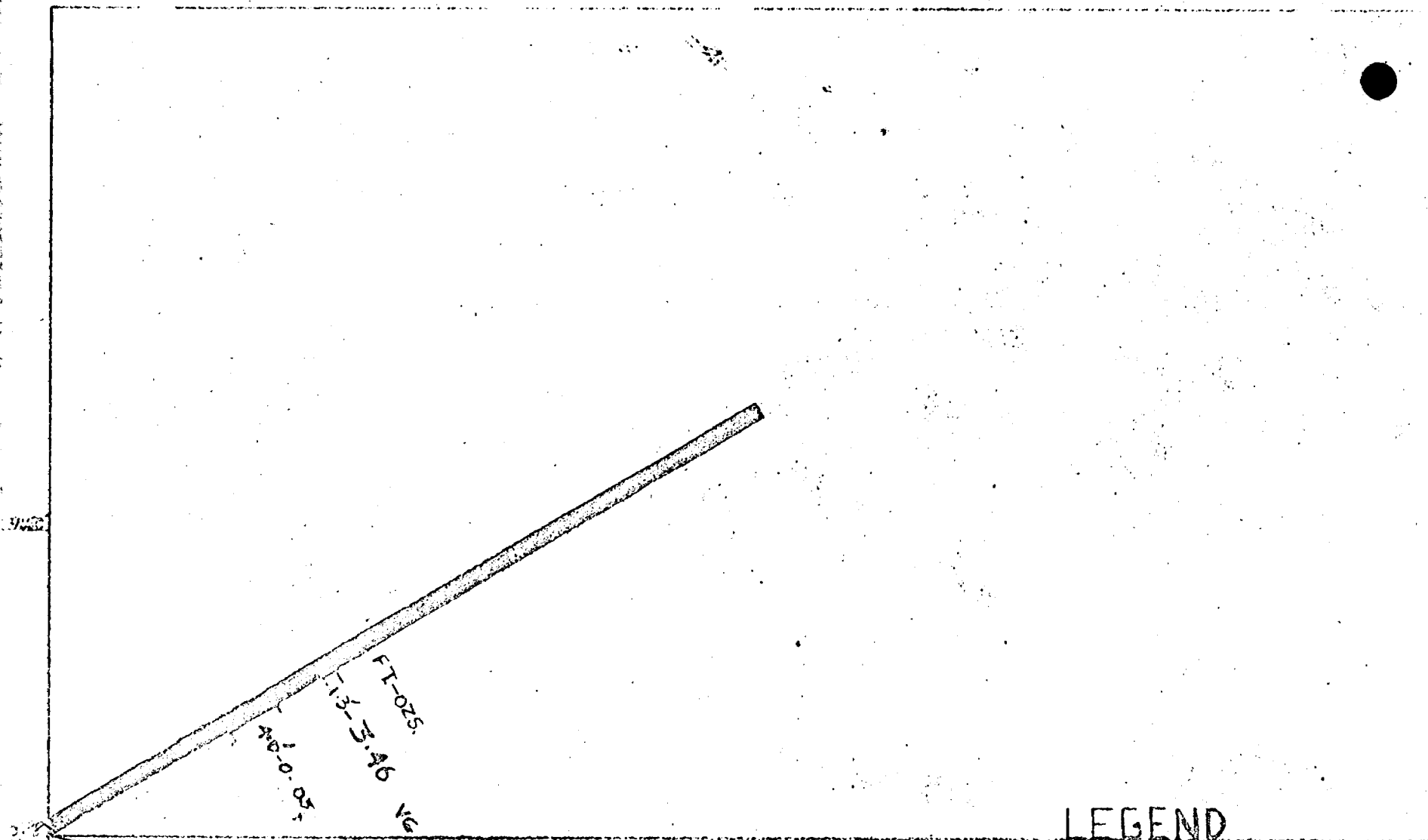
U.S.G.P. TORONTO—STOCK FORM NO. 501 REV. 12/51

DRILLED BY

A. Wilson

SIGNED

W. Gorrdo



LEGEND

- Chert-Altered
- Albitite-Porphry
- Andesite-Porphry
- Andesite
- Quartz

FITCHVEIN MINE MELBA TWP. D.D.H. Q-60

LATITUDE 10,143N
 DEPARTURE 10,118E
 ELEVATION 225 Level

DATUM 201NXC
 BEARING N73°E
 DIP +30°

STARTED Apr. 14-60
 COMPLETED Apr 16-60
 DEPTH 60.8'
 Scale 1"=10'

DIAMOND DRILL RECORD

PROPERTY PITCIVELN - MELBA

HOLE NO. R-60

SHEET NUMBER 1

SECTION FROM 0.0 TO _____

STARTED Apr. 15-60

LATITUDE 10, 143 N

DATUM 201 NYC

COMPLETED Apr. 22-60

DEPARTURE 10, 58 E

BEARING N 38° E

ULTIMATE DEPTH 30.5

ELEVATION 225° Level

DIP + 30° (Up hole)

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD \$	PERCENTAGE GOLD %
0.0 - 3.0	Alt. chert.				
3.0 - 7.0	Porphyry - coarse light col. felds phenos 1" qtz. str. above contact.				
7.0 - 11.0	Alt. chert.				
11.0 - 15.3	Qtz. & breccia vein in alt. chert.				
15.3 - 22.0	Porph. as at 3.0 - 7.0				
22.0 - 24.1	Alt. chert. - from 23.5 - 24.5 changing to porphyry at flat angle.				
24.1 - 26.9	Porph. 2" qtz. str. at 24.7, also str. 26.4 - 26.9				
26.9 - 30.5	Alt. chert. breccia - some fine qtz. str. K ₂ S ₂ on slips @ 30.0'				
	Good brecc. & qtz. in alt. chert. 11.0 - 14.5	1384	3.5	.02	
	Qtz. str. @ porph. cont. 14.5 - 16.0	1385	1.5	.01	

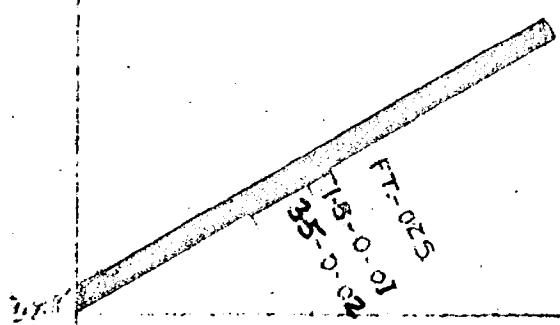
N.M.F. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY

A. Wilson

SIGNED

D. F. Hurd



PITCHVEIN MINES MELBA TWR

LATITUDE 10,145N	DATUM 201NXC	D.D.H. R-60
DEPARTURE 10,118E	BEARING N38°E	STARTED Apr. 15-60
ELEVATION 225 Level	D.P. +80	COMPLETED Apr. 22-60
		DEPTH 30.5'
		Scale 1" = 10'

LEGEND

- Chert-Altered
- Albitite-Porphry
- Andesite-Porphry
- Andesite
- Quartz

DIAMOND DRILL RECORD

PROPERTY PERCHVIZIT - NEEDA HOLE NO. 9-60

SHEET NUMBER 2 SECTION FROM 0.0 TO 50.00 STARTED Apr. 22-60

LATITUDE 10,143 N DATUM 201 MCG COMPLETED Apr. 23-60

DEPARTURE 10,110 E BEARING N 3° E ULTIMATE DEPTH 50.00

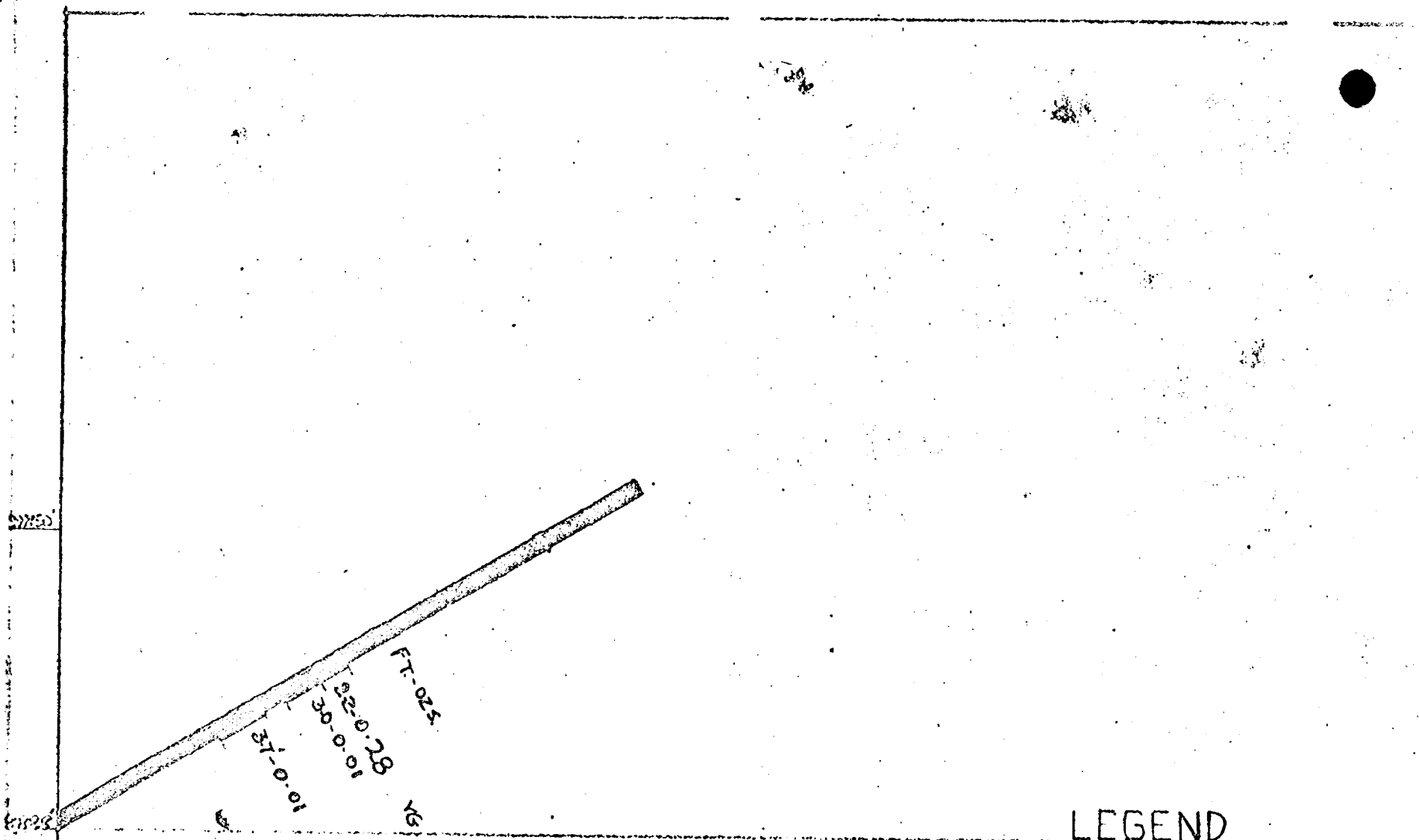
ELEVATION 2250 LEVEL DIP 30° (U. hole) PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD G	SUMMED GOLD G	
0.0 - 3.0	Alt. chert.					
3.0 - 13.0	Porphy. altered folds phono 2" alt. chert. 0.5, 1" alt. chert. 0.6, 2"					
	near qtz. str. 0 local patches alt. chert.					
13.0 - 17.5	Alt. chert. 0 qtz. str. veins 0 breccia.					
17.5 - 24.0	Porphy. - Fair amount qtz. str. 19.5 - 24.7					
24.0 - 25.2	Alt. chert. breccia 0 qtz. 0 FeS ₂ (H.W. vein ?)					
30.0 - 40.5	Alt. chert. 0 alt. chert. breccia .5 porph. 12.0"					
40.5 - 48.0	Porphyry.					
48.0 - 50.0	Alt. chert. breccia - alt. to green & reddish, near str. (qtz. 0 carb.)					
	END OF HOLE.					
		13.8 - 17.5	1386	3.7	.01	
		19.5 - 22.5	1387	3.0	.01	
		22.5 - 24.7	1388	2.2	.28	9.00 VG 0 25.00

N.M.P. TORONTO - STOCK FORM NO. 501 REV. 12/51

DRILLED BY A. Wilson

SIGNED D. F. Ward



PITCHVEIN MINES MELBA TWP.

AD. H. S-60

STARTED APR 22-60

COMPLETED APR 23-60

DEPTH 50.0'

Scale 1"=10'

LATITUDE 19143N

DATUM 201NXC

DEPARTURE 10.118E

BEARING N 3° E

ELEVATION 225 Level

DIP +33°

LEGEND

- Chert-Altered
- Albitite-Porphry
- Andesite-Porphry
- Andesite
- Quartz

DIAMOND DRILL RECORD

PROPERTY PITCHWOOD - MELBA HOLE NO. T-60

SHEET NUMBER 1 SECTION FROM 0.0 TO 45.3 STARTED Apr. 23-60
 LATITUDE 10,125.5 N DATUM 201MXC COMPLETED Apr. 24-60
 DEPARTURE 10,104 E BEARING N 38° E ULTIMATE DEPTH 45.3°
 ELEVATION 225° level DIP + 35° (up hole) PROPOSED DEPTH _____

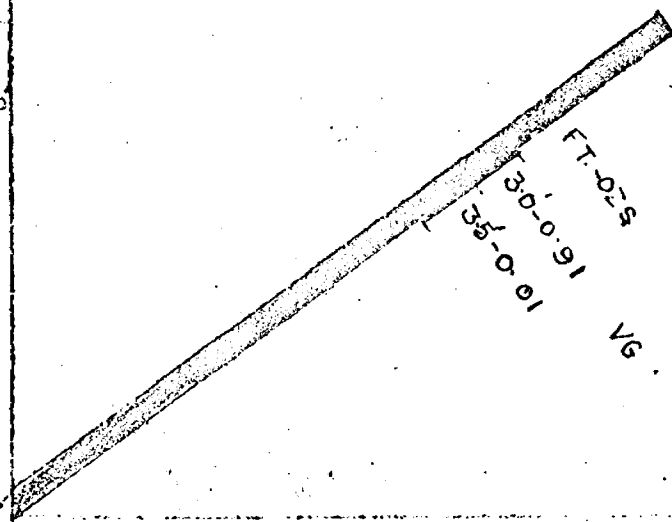
DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD g	GRAVE GOLD g
0.0 - 22.0	Alt. chert. - light carb. colored a few str.				
22.0 - 24.7	Porphyry.				
24.7 - 31.5	Alt. chert. - some qtz. str. & FeS ₂				
31.5 - 31.9	Qtz. vein FeS ₂ & MnS ₂				
31.9 - 32.5	Porphyry - qtz. str. @ 32.5°				
	Well min. qtz. vein (3 good showings of VG)	33.7 - 34.1			
	Qtz. str. & FeS ₂ & VG	XXXXXXXXXX 34.3 - 34.5			
	Depth Alt. chert. cont. @ 39.5 long angle to core.				
39.5 - 42.0	Alt. chert.				
42.0 - 45.3	Porphyry - Qtz. vein 42.0 - 42.2, also several qtz. str.				
	END OF HOLE.				
		28.0 - 31.5	1389	3.5	.01
		31.5 - 34.5	1390	3.0	.91 31.85

N.M.F. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY A. Wilson SIGNED D. F. Hurd

10150

10125



PITCHVEIN MINES MELBA TWP.

D.D.H. T-60

STARTED Apr. 23-60

COMPLETED Apr. 24-60

DEPTH 45.3'

Scale 1" = 10'

LATITUDE 10,125.5N

DATUM 201 NXC

DEPARTURE 10,104.4E

BEARING N38°E

ELEVATION 225 LEVEL

DIP +35°

LEGEND

- Chert-Altered
- Albitite-Porphyry
- Andesite-Porphyry
- Andesite
- Quartz

DIAMOND DRILL RECORD

PROPERTY PITCHVEIN -- MELBA HOLE NO. U-60
 SHEET NUMBER 1 SECTION FROM 0.0 TO 210.0 STARTED Apr. 24-60
 LATITUDE 10,111 N DATUM 225 Level Station COMPLETED May 5-60
 DEPARTURE 10,103 E BEARING S 21° W ULTIMATE DEPTH 210.0'
 ELEVATION 225 Level DIP 180° (Flat) PROPOSED DEPTH 400'

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD %	NET WT GOLD %
0.0 - 4.6	Light colored alt. chert. (Chert. Sod.)				
4.6 - 6.6	Porphyry				
6.6 - 54.6	(Chert. Soda.) Light colored mg. alt. chert. - turning darker @ 26.0'				
	1/2 Qtz. str. @ 15.9 & 16.1' Badly broken core from 27.6				
54.6 - 56.5	Porphyry.				
56.5 - 109.7	Alt. chert. - fault zone - fault breccia @ 64.0 and 67.0 and 82.8				
	Very badly broken core -- Hit water @ 63.0'				
109.7 - 110.9	Porph. (andesitic) contacts 45° or more.				
110.9 - 130.1	Alt. chert. - reddish brown tinge.				
130.1 - 144.0	Andesitic porph. 1/2" calcite str. @ 132.5, 135.0, 135.5				
144.0 - 144.6	Alt. chert. - reddish brown.				
144.6 - 145.1	Porph. andesitic. 141.3 - 143.3	1398	2.0	Min. str. 10-20° to core	
145.1 - 147.5	Alt. chert. - reddish brown 180.0 - 181.5	1399	1.5		
147.5 - 150.5	Porph. andesite.				
150.5 - 186.7	Alt. chert. as above. 167.2 - 167.5			Calcite vein.	
186.7 - 192.2	Porph. andesite. 180.0 - 181.5			Qtz. calc. str. - chalcocyanite	
192.2 - 195.1	Alt. chert.				
195.1 - 199.7	Alt. chert. & andes. porph. inter banded.				
199.7 - 204.8	Fresh looking grey fels. porph. or quartz diorite, sharp conts. at 50° & 35°				
204.8 - 210.0	Alt. chert.				
210.0	END OF RECORD - NOT COMPLETE				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY A. Wilson

SIGNED D. F. Hurd

1000.0

Collar

199.7

15' N

20-0-009

FT-025

210.0

NOT COMPLETED

LEGEND

- Chert-Altered
- Albitite-Porphyrty
- Andesite-Porphyrty
- Andesite
- Quartz

PITCHUEIN MINES MELBA TWR D.D.H. U-60

STARTED Apr 29-60

COMPLETED May 5-60

Ultimate 400.0

DEPTH 210.0

Scale 1" = 10'

LATITUDE 10,111 N

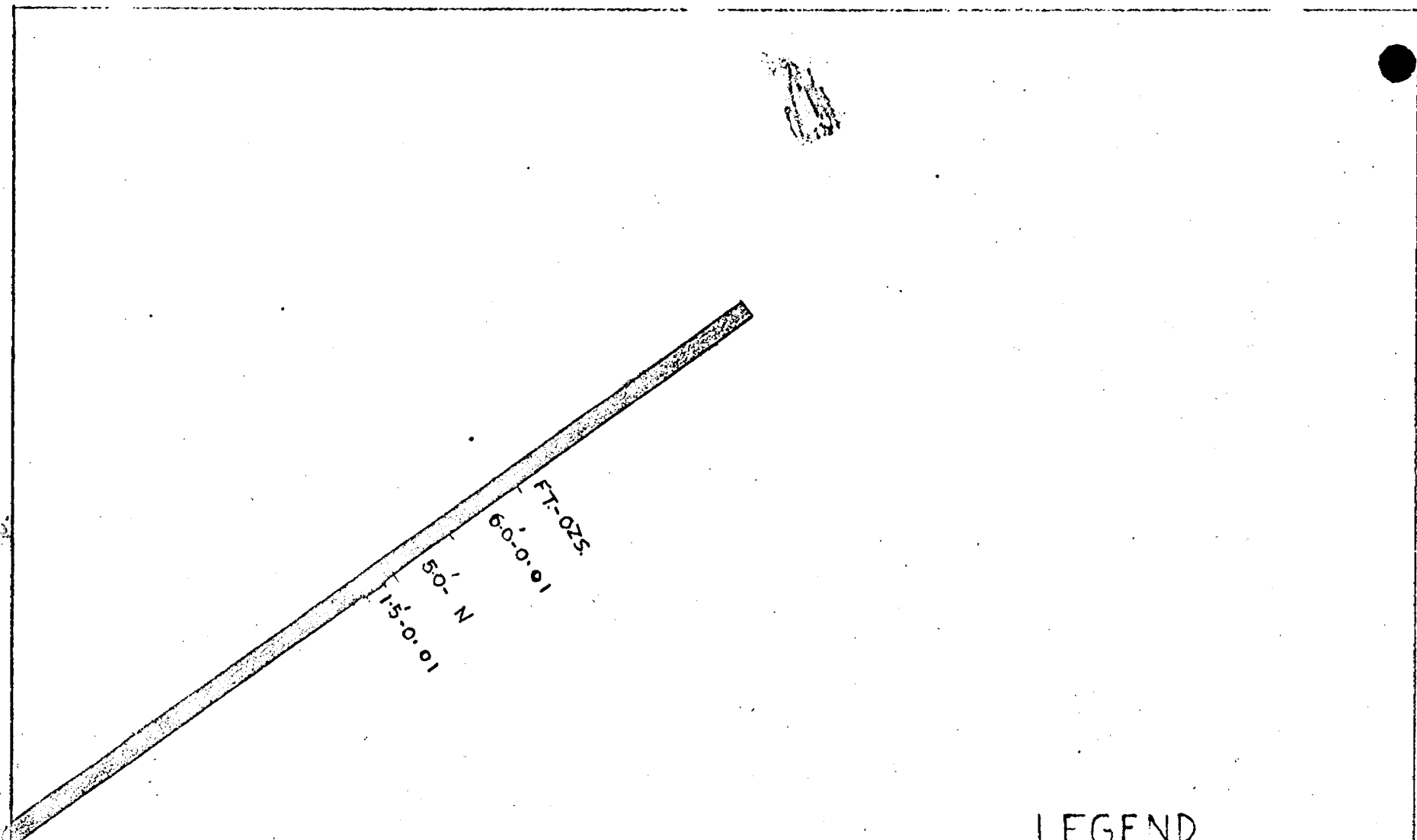
DATUM

DEPARTURE 10,103 E

BEARING S21° W

ELEVATION 225 Level

DIP 180° FLAT



LEGEND

- Chert-Altered
- Albitite-Porphry
- Andesite-Porphry
- Andesite
- Quartz

PITCHVEIN MINES MELBA TWP

DDH V-60

STARTED May 6-60

COMPLETED May 7-60

DEPTH 66.0'

Scale 1" = 10'

LATITUDE 10,116N

DATUM 225 LEVEL STATION

DEPARTURE 10,109 E

BEARING N 67° E

ELEVATION 225 Level

DIP +35

DIAMOND DRILL RECORD

PROPERTY PICTEVILLE - ISLEIDA HOLE NO. W-60

SHEET NUMBER 1 SECTION FROM 0.0 TO 203.0 STARTED May 28th, 1960
 LATITUDE 10,135 N DATUM 202 V COMPLETED May 28th, 1960
 DEPARTURE 10,071 N BEARING N 44 E ULTIMATE DEPTH 103.0'
 ELEVATION 225 Level DIP + 35 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	AGGREGATE GOLD \$
0.0 - 20.9	Alt. beds - argillite (Cherty beds) 103.0 0.6 - qtz. str. at start of hole & at 5.0 Locally variegated & brecciated, Calcite vein @ 14.9 Qtz. str. 16.1 @ 17.0 (Fault vein ?)				
20.9 - 21.6	Porph. - large folds phansu.				
21.6 - 31.0	Alt. cherty massive with sections of brecciation 1" Calcite vein @ 39.0' 41-44.5 variegated & brecc. some qtz. str. - buff colored. Beds turning red-brown at 44.5				
	Qtz. & alt. chert. Dr. vein 42.0 - 44.5	1490	2.5	.01	2.0414 / EIN
31.0 - 53.2	Porph. lg. phansu. cont. 25-30 to core.				
53.2 - 67.5	Mainly alt. chert. with a few narrow str. & patches porph. 2-1" qtz. str @ 57.7				
67.5 - 75.7	Coarse porph. - both contacts sharp @ 90°				
75.7 - 85.5	Alt. chert.				
85.5 - 86.5	Porph. - coarse - lat cont. sharp @ 90° 2nd long @ 10-15°				
86.5 - 89.7	Alt. chert. lat cont long to core.				
89.7 - 103.2	Porph. - Patch. alt. chert. @ 91.7 - 92.7 @ 99.5 - 99.9 Alt. chert. - Brecc. & Qtz. & Calc. vein 104.5 - 104.6				

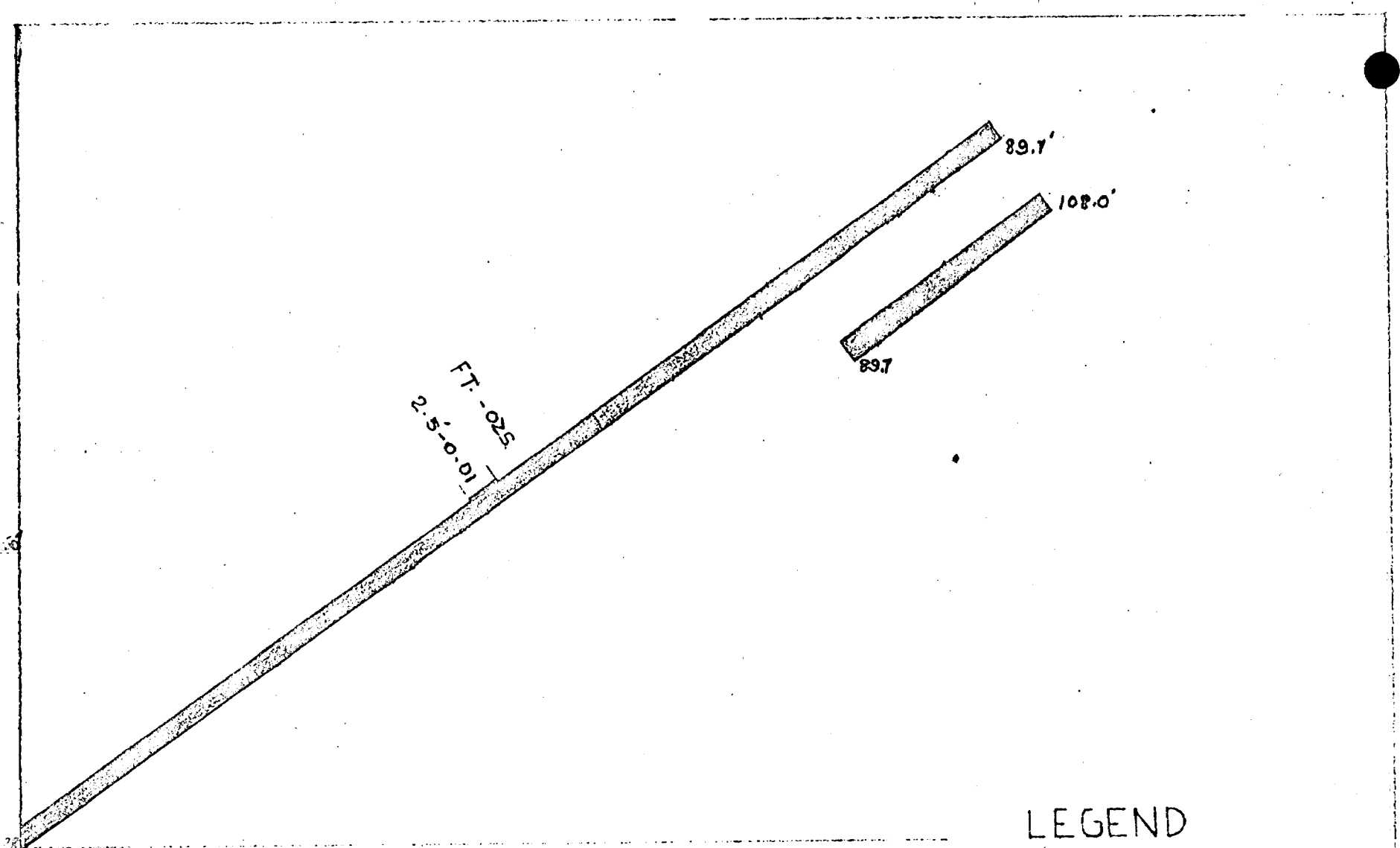
END OF LOG.

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51






108.0'

DRILLED BY A. Wilson

SIGNED D. P. Dool



LEGEND

-  Chert-Altered
-  Albitite-Porphry
-  Andesite-Porphry
-  Andesite
-  Quartz

PITCHVEIN MINES MELBA TWP.

DD.H. W-60

STARTED May 8-60

COMPLETED May 11-60

DEPTH 108.0'

Scale 1"=10'

LATITUDE 10,135N

DATUM 202 W

DEPARTURE 10,071E

BEARING N44°E

ELEVATION 225' Level

DIP +35°

DIAMOND DRILL RECORD

PROPERTY PITCHCREEK - MELBA HOLE NO. X-60

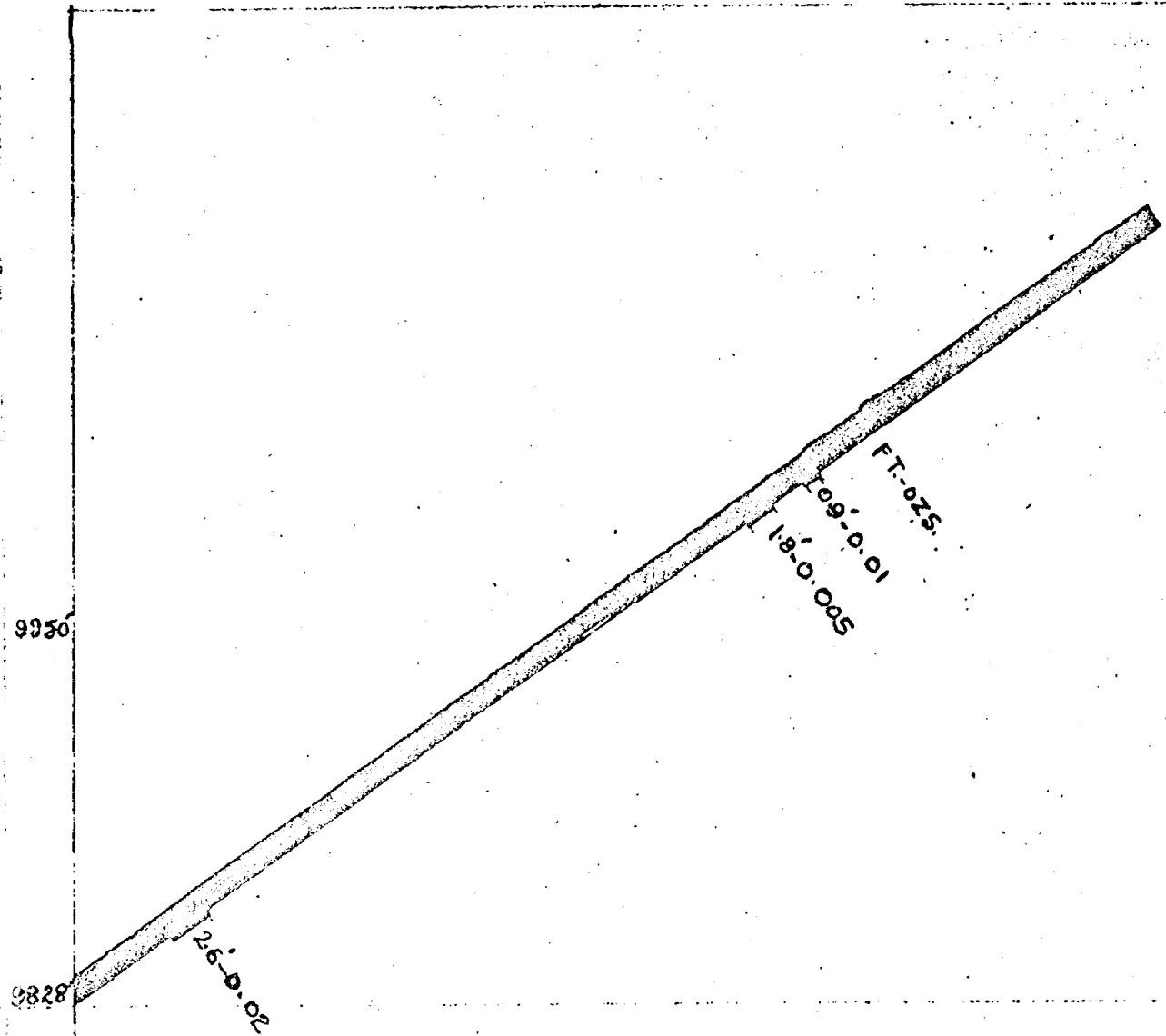
SHEET NUMBER 1 SECTION FROM 0.0 TO 81.3 STARTED May 11th, 1960
 LATITUDE 10,135 N DATUM 202 W Dr. (A-D+8.5 W) COMPLETED May 13th, 1960
 DEPARTURE 10,065 B BEARING N 5.5 W ULTIMATE DEPTH 81.3'
 ELEVATION 225' local DIP + 35 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	ESTIMATE GOLD %
0.0 - 13.5	Alt. chrt. fine Qtz. vein 7.0 - 9.6 Dry Qtz. str. & veining 12.5 - 13.5	1411	2.6	0.02	
13.5 - 17.7	Porphyry.				
17.7 - 24.0	Alt. chrt. .6 Qtz. & brecc. vein @ 17.7 - 18.3	1412	1.8	0.005	204 N Vein
24.0 - 25.1	Coarse porph. contacts @ 45°				
25.1 - 42.3	Alt. chrt.				
42.3 - 43.5	fg and porph.				
43.5 - 45.3	Alt. chrt.				
45.3 - 50.3	fg. and porph.				
50.3 - 52.0	Qtz. & alt. chrt. br. vein 50.3 - 52.1	1412	1.8	0.005	204 N Vein
52.0 - 53.9	Porph. Qtz. str. @ 53.3				
53.9 - 55.5	Alt. chert. 54.6 - 55.5	1413	.9	0.01	
55.5 - 64.7	And. porph.				
64.7 - 67.0	Alt. chrt.				
67.0 - 73.2	And. porph.				
73.2 - 76.3	Alt. chert.				
76.3 - 77.4	Porphyry.				
77.4 - 79.2	Alt. chert.				
79.2 - 80.3	Porphyry				
80.3 - 81.3	Alt. chert.				
	END OF HOLE				

N.M.P., TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY A. Wilson

SIGNED D. F. Hurd



9950

9828

PITCHULIN MINES MLLRA TWP.

DDH. X-60

STARTED May 11-60

COMPLETED May 13-60

LATITUDE 10,135 N

DATUM 202W Dn (A-D+8.5W)

DEPARTURE 10,065 E

BEARING N 55° W

DEPTH 81.3'

ELEVATION 225 Level

DIP +35°

Scale 1" = 10'

LEGEND

- Chert-Altered
- Albitite-Porphyry
- Andesite-Porphyry
- Andesite
- Quartz

DIAMOND DRILL RECORD

 PROPERTY PITCHVEIN - MELBA

PITCHVEIN - MELBA

 HOLE NO. Y-60 Y-60

 SHEET NUMBER 1

 SECTION FROM 0.0 TO 120.0

 STARTED May 13-60

 LATITUDE 10,078 N

 DATUM 201 EXC

 COMPLETED May 17-60

 DEPARTURE 10,029 E

 BEARING N 55 E

 ULTIMATE DEPTH 120.0'

ELEVATION _____

 DIP + 35°

PROPOSED DEPTH _____

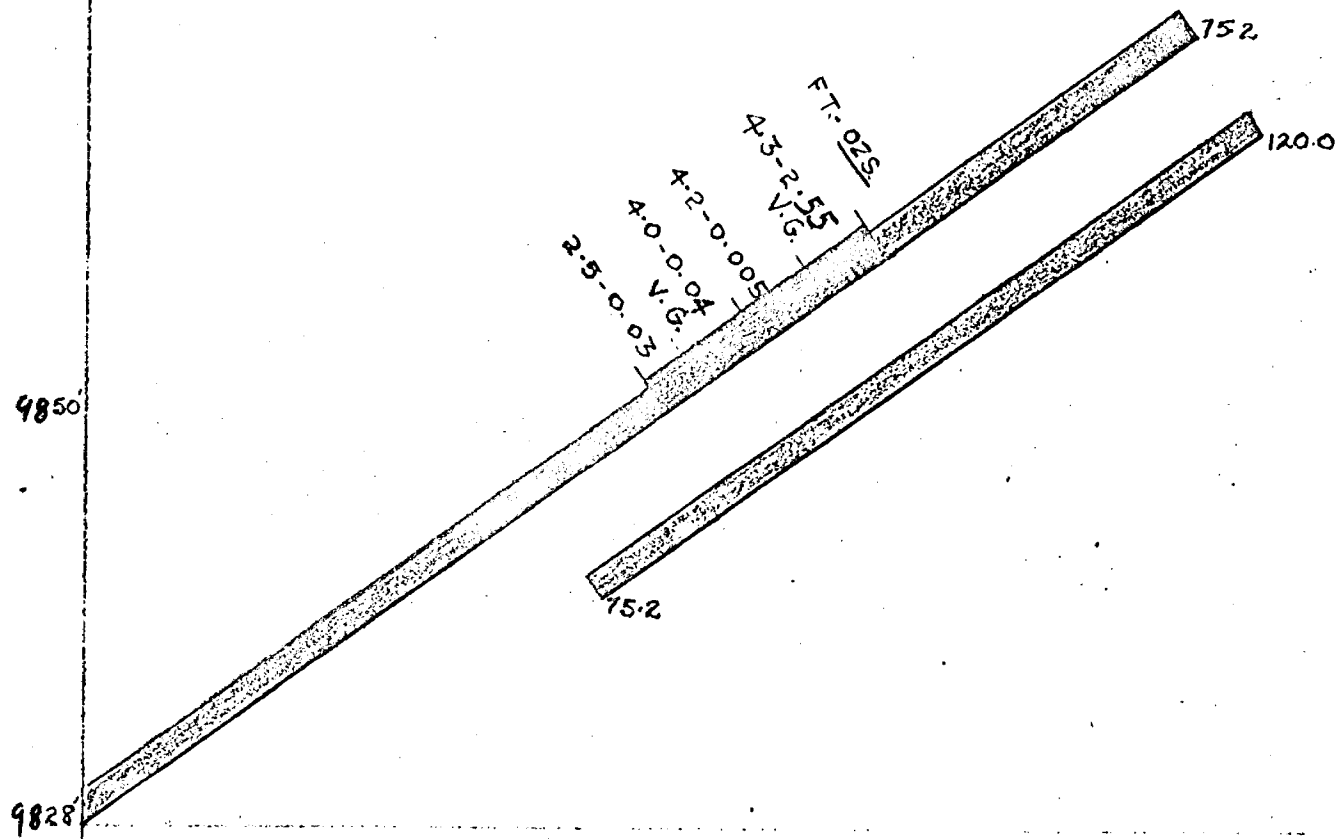
DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	PERCENTAGE GOLD %
0.0' - 27.0	Alt. chert. 3.5 - 6.0 Fault vein - calcite & qtz. & pod. broc. entered @ 20° to core exit @ 30° to core - 1' silic porph 5.0 - 6.0' - Min. sparce Alt. chert. - Porph (coarse) contact 25° @ 27' -- Good specimen unalt. chert. @ 20.5' 24.5 - 25.7 veined section - numerous qtz. & carb. str.				
27.0 - 29.2	Porph. enter @ 25° exit @ 50°				
29.2 - 32.6	Alt. chert. --- Contact @ 30°				
32.6 - 39.5	Porph. large phenos folds, local bands alt. chert.				
39.5 - 42.0	Vein - fine porph. broc. & qtz.	1414	2.5	0.03	
42.0 - 46.0	Vein - mostly qtz. fine FeS ₂ & Fe? - NoS	1415	4.0	0.04	VG in block
46.0 - 50.2	46.0 - 47.2 Alt. chert. & str.	1416	4.2	0.005	
	47.2 - 48.9 Qtz.				
	48.9 - 50.0 Alt. chert. bal. qtz.				
50.2 - 54.5	Qtz. & alt. chert. & porph. VG & Fe VG in block @ 54.1 & 54.4 in spec.	1417	4.3	2.55	
54.5 - 67.2	Alt. chert. .3' porph. with green flecks at 66.0'				
67.2 - 75.2	Porph. exit contact at hitch of an angle 20° & 45° Some qtz. str.				
75.2 - 120.0	Alt. chert. - buff turning to darker types - Fault veins at 91.8 & 97.0 - Bedding locally 10-20° to core. END OF HOLE.				

N.M.P. TORONTO - STOCK FORM NO. 501 REV. 12/51

 DRILLED BY A. Wilson

 SIGNED D. F. Hurd

94



PITCHVEIN MINES MELBA TWP

D.O.H. Y-60

STARTED May 13-60

COMPLETED May 17-60

DEPTH 120.0'

Scale 1" = 10'

LATITUDE 10,078 N

DATUM 201NXC






DEPARTURE 19,029 E

BEARING N 55° E

ELEVATION 225 level

DIP ± 35°

LEGEND

-  Chert-Altered
-  Albitite-Porphry
-  Andesite-Porphry
-  Andesite
-  Quartz

DIAMOND DRILL RECORD

PROPERTY PERSONNEL INDUSTRIES - MELBA

HOLE NO. 2-60 Z-60

SHEET NUMBER 1

SECTION FROM 0.0 TO 55.0

STARTED May 17/60

LATITUDE 10,052 N

DATUM 202 E Br.

COMPLETED May 18/60

DEPARTURE 10,170 B

BEARING N 30 E

ULTIMATE DEPTH 55.0

ELEVATION 225° Level

DIP +60

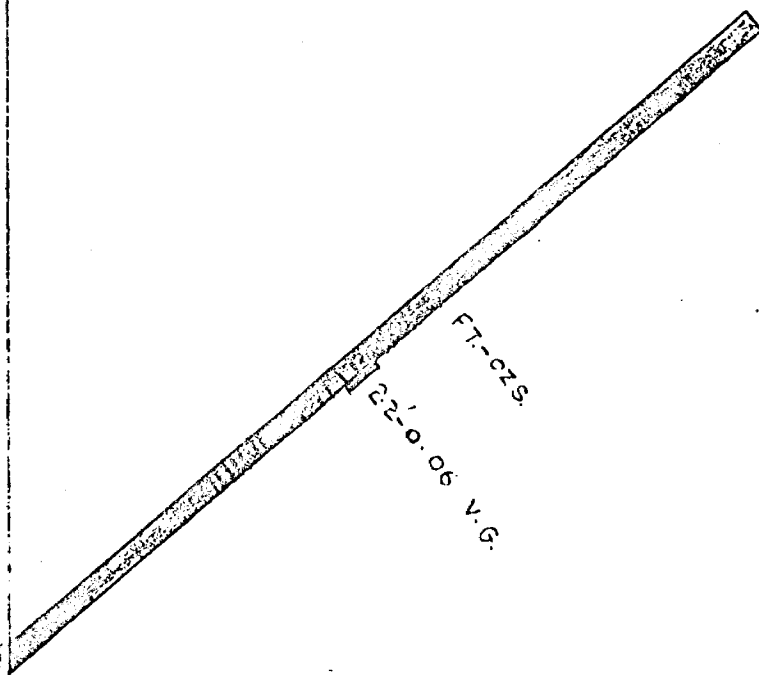
PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD \$	AGGREGATE GOLD \$	
0.0 - 5.8	Porph. - 0.0 - 1.1' Vein qtz. & alt. porph.					
	4.5 - 5.5 breccia mixed with alt. chert.					
5.5 - 14.8	Alt. chert. - flat contact with porph.					
14.8 - 20.8	Inter bedded porph. & chert.					
20.8 - 22.6	Porph. - coarse - qtz. str.					
22.6 - 32.7	Mixed f.f. porph. & alt. chert.	1418	2.2	0.06		VE
	fine qtz. str. & good qtz. vein 24.5 - 26.7 (204 N. Vein ?)					
32.7 - 35.2	Coarse porph.					
35.2 - 40.8	Mainly alt. chert. con often follows bedding.					
40.8 - 49.0	Andesitic porph. ? with scattered sulphides & str.					
	Contact 10° to zero.					
55.0' 49.0 - 55.0	Alt. chert.					
	END OF HOLE.					

N.M.P. TORONTO-STOCK FORM NO 501 REV 12/51

DRILLED BY A. Wilson

SIGNED D. P. Ford



PITCHVEIN MINES. MELBA TWP

AD.H. Z-60

STARTED May 17-60

COMPLETED May 18-60

DEPTH 55.0'

Scale 1" = 10'

LATITUDE 10,069 N

DATUM 202 W.D.R.






DEPARTURE 10,070 E

BEARING N 30° E

ELEVATION 225 Level

DIP +40°

LEGEND

-  Chert-Altered
-  Albitite-Porphry
-  Andesite-Porphry
-  Andesite
-  Quartz

DIAMOND DRILL LOG

~~MAXIMUS (1939) LTD.~~
PITCHVEIN MINES LIMITED

Operation:- Melba Twp., Ont.

Location:- Cl.L ⁷⁹⁰⁵⁵ 59889

Hole No.:-S 62-1

Elevation:-

Level: -Surface

Started :- ^{Aug 21 / 62} Sept. / 62

Dip -Collar- 45°
 350' 37 1/2°
 749 35°

Latitude:- 200' S plus
 100' S 30° W
 Departure:- of the shaft

Finished:- ^{Sept 24 / 62} " " "

Bearing :-S 30 degs.W

Logged By:-G.E.Moody.

Length: -749'

Drill.Co: -

Purpose: -To explore under swamp & to determine width of sediments

Depth Feet	Description	Sample No.	Assay 0.25.
0.0-56.0	Casing- drilled 1.5' into rock		<u>AU</u> 1.4
56.0-57.3	Grey Feldspar porphyry-highly altered & carb. finely x-fractured mainly at 65 & 25° few carb. strgs with some py		
57.3-63.7	Argillites-grey-much altered & carb. finely fractured-in places brecciated		
63.7-65.0	Grey Porphyry-as before-well min.py-contact seds 25°, some fine fracturing at 55° cuts across contact	1441	0.01
65.0-65.7	Argillites-		
65.7-67.5	Grey Feldspar Porphyry-silicified, carb. fine fracturing at 45° with carb strgs. at 55° cutting former-rough contact at 30° w.m. fine py	1428	TR.
67.5-71.5	Argillites-less altered-in places finely bedded at C.A. of 25 & 45°-sli. frag folding		
71.5-73.3	Grey Porphyry-as before-first 0.5' may be altered greywacke with neg. min. rest w.m. fine pyr.	1442	0.02
73.3-79.0	Slaty seds.-altered & cut by carb. strgs. 78.3-78.5-brecciated		
79.0-79.5	Vein Material-seds. cut by few fine qtz. strgs. with V.G. noted in one place in piece kept out of sample	1427	0.05 .22
79.5-93.2	Alternating beds of slates & greywacke		
93.2-94.9	Dike-light grey-silic. & carb. cut by fine qtz. carb. strgs w.m. fine py.-last 0.5' altered seds(?) w.m. fine py	1429	TR.
94.9-98.0	Grey Feldspar Porphyry-cut by few carb. strgs at 40°-sli. min		
98.0-100.4	Slates & Greywacke		
100.4-103.2	Greywacke		
103.2-104.0	Seds.- brecciated, carb. ' cut by qtz. carb strgs sli. min	1430	TR,
104.0-158.5	Mainly slaty seds-with little argillites and greywacke -cut by carb. & qtz. carb. strgs.		
119.5-131.1	greywacke w.m. fine py.		

PTH FEET	Description	Sample No.	Assay
	<p>143.2-144.1-brecciated, carb-altered 152.0-drag folding in bedding 156.9-158.5-some light colored seds altered, finely xfractured, with some bx-many Qtz. carb. str strgs.</p>		<p>ozs/ton <u>AV.</u> <u>AV.</u></p>
158.5-159.0	<p>Vein Material-altered basic dyke cut by 0.2' Qtz. carb. vein & strgs+some chlorite in Qtz.-contact angle 80° sli. py.</p>	1431	0.12 ✓
159.0-169.0	<p>Slaty seds & greywacke-finely bedded at 55°</p>		
169.0-169.6	<p>Quartz Vein-with some carb. & chloritic strgs. -no min</p>	1432	nil
169.6-377.0	<p>Mainly slaty seds. with occasional grey- wacke bed-x fractured& cut by many carb. strgs. some with py- odd brecciated area-greywacke often min. with py. greywacke beds-178.1-179.1, 190.2, 202.2-206.5, 267.0-271.3 two beds, 355.1-359.0, 362.0-373.9 two beds</p> <p>195.0' bedding at 20° 233.4-234.7-bx(brecciated) & carb. strong slip at 20° to core 238.4-239.2-highly x fractured, with carb. strgs.-strong slip at 20° to core 253.8-256.6-more fractured some breccia & carb. strgs. 272.0'-bedding 35°, at 275' 20° 276.0'-2" barren carb. vein 285.0' strong slip at 70° to core 287'-299'-more fractured, main fracturing 45-50° 315.0'-bedding at 15° 330.4-330.9-Carb. vein-strong slips at 30 & 35° 335.4-335.7-brecciated & carb.- some leaching. 345.7-346.2-patch of py 1½" long in bx area, cut by carb strgs 351.0'-bedding at 25° 359.0-359.4-bx & carb. some py. 362.0'-flat talcose slip.</p>		
377.0-378.2	<p>Fault Zone (?) -highly brecciated, some mud (drillers) , lost core</p>		
378.2-492.0	<p>Mainly slaty seds.-odd greywacke bed- fairly massive 384.0-386.0-some folding 386.6-387.7-strongly brecciated- & carb. one 2" carb. vein some fine py.</p>		

FEET	Description	Sample No.	Assay
	401.0-405.0-Brecciated & carb-low fine py. 410.0-411.2- as above 433.0-bedding & slips at 35° 433.2-438.5-carb. vein-fair py & pyrph 442.0-bedding 5°-signs of folding 450.2-451.2- greywacke cut by carb. strgs. at 75°-w.m. py 468.0-bedding at 10° 482.0- " " 45°-signs of folding	1433	TR.
492.0-494.0	Vein Material-brecciated, silic, seds cut by many carb. strgs, fair py-1/8" mud seam at 30°	1434	nil
494.0-518.4	Slaty seds.		
518.4-528.0	508.0-508.8-brecciated & cut by carb. strgs. 516.6-2" bx & carb. Grey Feldspar Porphyry-cross fractured, in places brecciated-many carb & some qtz. strgs-low py in strgs 526.6-528.0-contact with slates is flat	1435 1436	TR. TR.
528.0-577.0	Slaty seds with odd greywacke bed-fairly massive-cut by odd carb. stg. 545.0-strong slip at 25° 546.0-549.7-sections bx & highly x fractured-some py. 561.4-565.4- red greywacke cut by one 3" carb. vein at 15°		
577.0-634.7	Banded Zone-alternating bands of slates & greywacke, often thinly bedded, cross fractured, cut by carb. & qtz. carb. strgs.-some py. in strgs & disseminated in rock, especially greywacke bedding-at 580'-42°, 597'-60°, 624'-75° brecciated contact with greywacke at 583' & 591.3' 618.0'-622.0'-more x fractured & more carb. strgs. 622.0'-623.5'-slaty seds with 0.2' grey porphyry, all bx & cut by many carb. & qtz. carb. strgs w.m. py-narrow basic dyke (hornblende needles) next porp.	1437	TR.
634.7-642.5	Brecciated Zone-seds.-whole brecciated, only parts refractured-in places cut by qtz. carb. strgs with fair py & cpy-some py slips 641.0-642.5-Bx-qtz. carb strgs with py	1438	nil

DEPTH FEET	Description	Sample No.	Assay
642.5-651.1	Slaty seds. with odd greywacke bed 647.0'-bedding 65°		
651.1-651.9	Carb. Vein-brecciated-neg. min. contact angles 45 & 15°		
651.9-653.5	Slaty Seds.-as before		
653.5-654.5	Carb. Vein-brecciated-neg. min.		
654.5-749.0	Banded Zone- alternating slate & greywacke beds-often thinly bedded-fairly massive-cut by some carb. & qtz. carb. strgs. 655.0'-656.0'-strongly sheared number slickensided slips, two with mud on them, slips at 20° & 45° 695'-bedding 25° 692.0'-692.8'-brecciated-carb. strgs. with fair py 707.3-708.3-cut by many carb. strgs w.m. py 710.7-733.0-more x fracturing & bx, with more qtz. carb. strgs. 742.0'-bedding 70°	1439 1440	TR Tr.
E N D			
Note:-			
The hole was all in sediments, extending considerable the width of the belt.			
The sediments appear to be overturned to the north.			
Minor drag folding was noted along the length of the hole, with however a major roll coming in toward the end of the hole. The beds dip at around 25-30° to around 600 feet, with minor local variations. From 600' on there is a noticeable steeping of the strata up to 65-70° with the core.			
The sediments on the whole were quite cross-fractured and were cut by numerous carbonate stringers, a condition often found close to a major faulting.			

DIAMOND DRILL LOG

~~XXXXXXXXXXXXXXXXXXXXX~~
PITCHVEIN MINES LIMITED

Operation:- Melba Township, Ontario

Location:- cl. L59890 ⁷⁹⁰⁵⁴

Hole No.:- S62-2

Elevation:-

Level: - Surface

Started :- Sept. 29th/62

Dip -Collar-

Latitude:- 530° S30°W
of collar of

Finished:- Oct. 8th,/62

Departure:-hole S62-1.

Bearing :- S 30° W

Logged By:- G.E.Moody

Length: -230'

Drill.Co: -

Purpose: - To continue cross-section of swamp from Where S62-1 ended,

Depth Feet.	Description	Sample No.	Assay
0.0-230.0	Overburden Drill stopped at its limits of performance after passing through clays and quicksands,		

DIAMOND DRILL LOG

~~XXXXXXXXXXXXXXXXXXXX~~
PITCHVEIN MINES LIMITED

Cls. L-59506,
 59889 79055
 59890 79051

Operation:- Melba Township, Ont.

Location:- Surface

Hole No.:- S62-3

Elevation:-

Level: -

Started :- Oct. 16/62

Dip -Collar- 44½ degs.
 590'- 33 "

Latitude:- 0-63S

Finished:- Nov. 8th/62

Departure:- 3-00 W

Bearing :- S 30° W

Logged By:- G.E. Moody

Length: - 725.7'

Drill. Co: -

Purpose: - To investigate the Rolling Vein & area under swamp.

Depth Feet	Description	Sample No.	Assay
0.0-4.0	Casing		
0.0-4.0	Casing		
4.0-6.0	Diorite-carb. & altered-cut by qtz. carb. strgs.		
6.0-8.5	Grey Feldspar Porphyry- altered-cut by hairline qtz. carb. strgs.-dissem. py-core A-75°		
8.5-16.6	Diorite- as before but with irreg. narrow porphyry dykes		
16.6-17.5	Altered Diorite- highly carb & altered-cut by 1½" carb. vein & 0.6' carb. strgs. at low angle to core-hi flat shear from 20 to 30 degs. to core		
17.5-23.7	Diorite -as before but not altered		
23.7-24.5	Quartz Vein- barren, massive white qtz. with little carb. & chlorite strgs.		
24.5-47.0	Diorite- as before but with aplitic alteration in places 30.6-33.8-soaked by aplitic juices & cut by aplitic strgs.		
47.0-52.6	Basic Syenite-with gradational much altered light green section		
52.6-57.0	Diorite-as before		
57.0-62.4	Quartz Strg. Zone-35% qtz. -little carb with qtz-barren -in diorite 59.5-61.7- 50% quartz	1443	TR.
62.4-69.3	Diorite- as before 67.8-foliated & carb strgs.		
69.3-75.2	Basic Syenite-gradational contact-red aplitic phases-begins with slip at 40 degs.		
75.2-77.9	Coarse Diorite-in places foliated-cut by carb. strgs. last foot highly altered.		
77.9-84.8	Basic Syenite- gradational with dior.		
84.8-96.0	Diorite-as before-fine py. in qtz, carb strgs & in rock-pyrrh min. in rock 88.0-88.7-qtz. veining with slips at 55 & 70 degs.-sli fine py. 91.0-94.0- finely x-fractured & carb.	1444	TR.
96.0-127.0	Basic Syenite-gradational contact 103.8-1" qtz. strg at 50°-fine dissem py.		

DEPTH FEET	Description	Sample No.	Assay
127.0-138.0	Diorite- fine & coarse with hybrid phases altered and with some cherty incl.		
138.0-143.7	Cherty Sediments-cut by qtz. carb strgs. some min. with py.		
143.7-150.0	Basic Syenite-	1445	Tr.
150.0-162.0	Altered Zone- highly altered dior, syen- last two feet very hi alteration		
162.0-163.6	Vein Material- highly altered seds. cut by qtz. strgs (25%) w.m. fine py	1446	0.03
163.6-174.0	Dioritized Seds.-more diorite		
	Vein 167.1-167.5- Brecciated Qtz. carb. vein-VISIBLE GOLD noted in two places-one fine, one coarser-w.m. fine py in wall rock contact angle 50°	1448	0.12
	169.2-169.6-50% qtz. & silic. w.m. fine py	1449	0.03
	170.9-171.4-flat carb. vein with qtz. strgs. with cpy.		
174.0-218.9	Grey Cherty S _{eds} .-highly altered cut by many qtz. carb. strgs.-w.m. in places in seds. with fine py-		
	in qtz. py & odd speck chalco.		
	176.2-177.2-more strgs. & py	1447	TR.
	181.5-185.5-cut by one 2" bx carb. vein & many strgs. some with qtz-fine py in wall rock	1450	TR.
	186.5-187.0-cut by one 1½" & few fine qtz. carb strgs w.m. fine py. contact 80°	1451	Tr.
	189.5-192.5-finely x-fractured many carb. strgs. mainly flat -odd min. section		
	199.0-215.0-cherty frags. in dior. or highly soaked seds.		
	215.0-217.0-dior, highly altered x-fract.-many qtz. carb. strgs. w.m. fine py	1452	TR.
218.9-219.4	Vein- qtz. carb. w.m. fine cubic py	1453	TR.
219.4-245.7	Grey Seds.-mainly cherty-carb. in places soaked by dior.-cut by many carb. & qtz. carb strgs.-considerable x-fracturing-odd section min. py		
	239.3-240.3-brecciated-highly altered-many qtz. carb strgs. w.m. with pyrhh & py	1454	TR.
	244.7-245.1-bx & altered		
245.7-246.1	Vein Material-speck of Visible Gold-seds cut by qtz. & carb strgs. (25%)	1455	0.01
246.1-276.8	Argillaceous Seds.-in places soaked by dior.		
	249.0-2½" carb. vein no min at 50 degs.		

DEPTH FEET	Description	Sample No.	Assay
276.8-279.0	261.0-263.7-highly altered dior. 268.0-slips at 50°-pseudo banding Vein Material-first foot brecciated, x-fractured & cut by many qtz. carb. strgs. & some bluish qtz. strgs. rest fractured not so much altered and fewer strgs. 276.8 -279.0	1456	0.03
279.0-287.1	Sediments- much altered & fractured- little dior.		
287.1-290.2	Rusty Leached Zone-contact angle 70° 289.8-290.8	1459	0.01
290.2-294.6	Sediments-very highly altered-in places brecciated & cut by qtz. carb strgs.-ends with rusty carb. strg at 50°		
294.6-296.2	292.0-294.6-more fracturing & strgs Vein-Quartz with a little carb, few chlor. strgs-little fine py in wall rock	1457 1458	TR. TR.
296.2-344.6	Sediments-mainly argillaceous-few slaty more altered-greyish and mauve cut by qtz. carb. strgs & /core. 332.0-finely banded at 20° to		
344.6-346.9	Vein Material-silic, brecciated carb. zone fair fine py-slips at 50 degs.	1460	TR.
346.9-366.6	Argillaceous Seds-grey & purplish-more altered-cut by qtz. carb. strgs. & strgs of py & prrh. 348.0-350.6-more altered, carb & silic-strgs around 45 degs.	1461	TR.
366.6-382.9	Argillaceous Seds-grey-less altered		
383.9-386.8	Grey Feldspar Porphyry-carb & cut by carb strgs-some inclusions w.m. fine py	1462	nil
386.8-387.4	Argillaceous Seds.		
387.4-387.8	Vein Material-cut by qtz. carb. Strgs-bleb of pyrrh over 1" some py	1463	nil
387.8-417.7	Argillaceous Seds, grey with purplish sections-finely banded in places-cut few narrow porphyry strgs.		
417.7-419.2	Vein- carbonate-cpy on slip at start		
419.2-429.2	Sediments as before		
429.2-434.8	Highly Altered Brecciated Zone-mainly carb. filling but some qtz. & silic, some porphyry sections-fair py, pyrrh, little cpy 429.2-430.9-hi bx-fair py, pyrrh & cpy	1464	TR.
	433.0-435.2-cut by more strgs fair fine py	1465	TR.
434.8-469.1	Sediments as before-more altered-many narrow grey porphyry dykelets finely bedded in places at 50-60 degs. but dykes at 20° 468.0-469.1-porph.-w.m. py & pyrrh	1466	TR.

TH FEET	Description	Sample No.	Assay
469.1-531.7	Argillaceous Seds.-grey-less altered, fractured & fewer qtz. carb strgs.		
	496.0- finely bedded at 40 degs		
531.7-536.2	523.8-534.5-brecciated carb. vein Feldspar Porphyry-qtz. dior.(?)-dissem. fine py-platy py on slips-contact angles 15°-x-fractured-carb strgs.		
536.2-576.0	Sediments-mostly argillaceous-some grey- wacke-some finely bedded sections mainly around 20°		
576.0-588.0	Highly sheared & Altered Zone-Argillaceous & slaty seds-fractured sheared & shattered,numerous carb & qtz. carb. strgs-slips mainly at 55°		
	585.7-588.0-brecciated,highly carb. slaty seds-some silic-odd spot of pyrph & cpy-little mud on slip	1467	nil
588.0-588.7	Quartz Carb. Vein-contact 30°-fine dark wispy fractures with cpy & py vein next fault and some ground up	1468	nil
588.7-590.3	FAULT ZONE-mud & finely ground core-sand & bits recover show some well min. quartz- 1.0' ground & lost	1469 1470	nil
590.3-591.7	Highly Brecciated Carb. Zone-some silic		
591.7-613.5	Highly Fractured Zone-argillites & slates numerous carb. strgs		
	612.0-113.5-more sheared,slaty slips		
613.5-725.7	Sediments-mainly grey argillaceous-in places finely bedded-x-fractured carb. filling-some qtz. strgs.& silic-becoming less fractured and fewer carb. strgs.		
	627.0- bedding 68°		
	635.0-flat talcose slip		
	643.5-644.1-cut Oil flat carb. vein some silic	1471	nil
	657.7-658.2-brecc & carb-some purplish alter. neg. min	1472	nil
	659.2-670.6-flat carb. veins		
	684.8-685.1-narrowly bedded at 55°-few fine stgs. of py		
	700.0- beds at 55°		
	724.0-bleb of py.		
	Hole stopped as cave from fault fell in. To be cemented and drilling resumed with larger machine.		

DIAMOND DRILL RECORD

PROPERTY PITCHVEIN MINES LIMITED HOLE NO. S-64-1

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED Aug. 21/64
 LATITUDE 20.0° S plus 100° S 30°W DATUM To explore under swamp to COMPLETED Sept. 24/64
determine width of sediments.
 DEPARTURE of the shaft. BEARING _____ ULTIMATE DEPTH 749'
 ELEVATION _____ DIP Collar 45° 350° 37½° PROPOSED DEPTH _____
740 35°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0 - 56.0	Casing - drilled 1.5' into rock				
56.0 - 57.3	Grey Feldspar porphyry-highly altered and carb. finally x-fractured mainly at 65 & 25° few carb. strgs. with some py				
57.3 - 63.7	Argillites-grey-much altered & Carb. finely fractured in places brecciated				
63.7 - 65.0	Grey Porphyry-as before-well min. py-contact seds 25°, some fine fracturing at 55° cuts across contact	1441		0.01	
65.0 - 65.7	Argillites -				
65.7 - 67.5	Grey Feldspar Porphyry-silicified, carb. fine fracturing at 45° with carb strgs. at 55° cutting former-rough contact at 30° w.m. fine py	1428		Tr.	
67.5 - 71.5	Argillites-less altered-in places finely bedded at C.A. of 25 & 45° - sil. drag folding				
71.5 - 73.3	Grey Porphyry-as before-first 0.5' may be altered greywacke with neg. min. rest w.m. fine pyr.	1442		0.02	
73.3 - 79.0	Slaty seds.-altered & cut by carb. strgs. 78.3-78.5 - brecciated				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY D. F. Hurd SIGNED G. E. Moody

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DIAMOND DRILL RECORD

PROPERTY PITCHVEIN MINES LIMITED HOLE NO. S 64-1

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$ AG.
79.0 - 79.5	Vein Material - seds. cut by few fine qtz. strgs. with V.G. noted in one place in piece kept out of sample	1427		0.05	.22
79.5 - 93.2	Alternating beds of slates & greywacke				
93.2 - 94.9	Dike light grey silic. & carb. cut by fine qtz. carb. strgs. W.M. fine py. - last 8X 0.5' altered seds(?) w.m. fine py	1429		Tr.	
94.9 - 98.0	Slates & Greywacke				
98.0 - 100.4	Grey Feldspar Porphyry - cut by few carb. strgs at 40° - sli. min.				
100.4 - 103.2	Greywacke				
103.2 - 104.0	Seds. brecciated, carb. cut by qtz. carb strgs sli. min	1430		Tr.	
104.0 - 158.5	Mainly slaty seds with little argillites and greywacke - cut by carb. & qtz. carb. strgs. 119.5-121.1 - greywacke w.m. fine py. 143.2-144.1 brecciated, carb-altered 152.0 drag folding in bedding 156.9 - 158.5 some light colored seds altered, finely fractured, with some by many qtz. carb. strgs.				

N.M.P., TORONTO - STOCK FORM NO. 501 REV. 12/51

DRILLED BY D. E. Hued

SIGNED G. E. Moody

DIAMOND DRILL RECORD

PROPERTY PITCHVEIN MINES LIMITED HOLE NO. S64-1

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
158.5 - 159.0	Vein Material-altered basic dyke cut by 0.2' qtz. carb. vein & strgs. some chlorite in qtz. contact angle 80° sli. py.	1431		0.12	
159.0 - 169.0	Slaty seds & greywacke-finely bedded at 55°				
169.0 - 169.6	Quartz Vein-with some carb. & chloritic strgs. - no min.	1432		Nil	
169.6 - 377.0	Mainly slaty seds. with occasional greywacke bed-z fractured & cut by many carb. strgs. some with py-odd brecciated area-greywacke often min. with py. greywacke beds 178.1-179.1, 190.2, 202.2-203.5, 267.0, 271.3 two beds, 355.1-359.0, 362.0-373.9 two beds 195.0' bedding at 20° 233.4-234.7-bx(brecciated) & carb. strong slip at 20° to core 238.4-239.2 highly x fractured, with carb. strgs.-strong slip at 20° to core 253.8 - 256.6 more fractured some breccia & carb. strgs. 272.0' bedding 35°, at 275' 20° 276.0'-2" barren carb. vein				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY D. F. Hurd

SIGNED G. E. Moody

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DIAMOND DRILL RECORD

PROPERTY PITCHVEIN MINES LIMITED HOLE NO. S64-1

SHEET NUMBER 4 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	285.0' strong slip at 70° to core				
	287'-299' more fractured, main fracturing 45-50°				
	315.0' bedding at 15°				
	330.4 - 330.9 Carb. vein-strong slips at 30 & 35°				
	335.4-335.7 brecciated & Carb. some leaching.				
	345.7-346.2 patch of py 1½" long in bx area, cut by carb strgs				
	351.0' bedding at 25°				
	359.0 - 359.4 bx & carb. some py.				
	362.0' flat talcose slip.				
377.0-378.2	Fault Zone (?) highly brecciated, some mud (drillers) lost core				
378.2-492.0	Mainly slaty seds. - odd greywacke bed- fairly massive				
	384.0 - 386.0 some folding				
	386.6 - 387.7 strongly brecciated & carb. one 2" carb. vein some fine py.				
	401.5-403.0 Brecciated & carb.- low fine py.				
	410.0-411.2 as above				
	433.0 bedding & slips at 35°				
	438.2-438.5 carb. vein-fair py & pyrrh.	1433	Tr.		
	442.0 bedding 5° XXXXXXXX signs of folding				

N.M.P., TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY D. F. Hurd

SIGNED G. E. Moody

DIAMOND DRILL RECORD

PROPERTY PITCHVEIN MINES LIMITED HOLE NO. S64-1

SHEET NUMBER 5 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
	450.2-451.2 greywacke cut by carb. strgs. at 75° w.m. py						
	468.0 bedding at 10°						
	482.0 bedding at 45° - signs of folding						
492.0 - 494.0	Vein material-brecciated, silic, seds cut by many carb. strgs. fair py - 1/8" mud seam at 30°	1434	Nil				
494.0 - 518.4	Slaty seds.	1434	Nil				
	503.0-503.8 brecciated & cut by carb. strgs.						
	516.6 - 2" bx & carb.						
518.4 - 528.0	Grey Feldspar Porphyry-cross fractured, in places brecciated-many carb & some qtz. strgs - low py in strgs						
	526.6 - 528.0 contact with slates is flat						
	518.4 - 523.4	1435	Tr.				
	523.4 - 528.0	1436	Tr.				
528.0 - 577.0	Slaty seds with odd greywacke bed-fairly massive-cut by odd carb. strgs. 545.0 strong slip at 25°						
	546.0 - 549.7 sections bx & highly x-fractured - some py.						
	561.4-565.4 greywacke cut by one 3" carb. vein at 15°						

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY D. E. Hurd

SIGNED G. E. Moody

DIAMOND DRILL RECORD

PROPERTY PITCHVEIN MINES LIMITED HOLE NO. S64-1

SHEET NUMBER 6 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
577.0-634.7	Banded Zone-alternating bands of slates & greywacke, often thinly bedded, cross fractured, cut by carb. & qtz. carb. strgs. some py. in strgs & disseminated in rock, especially greywacke bedding- at 580'-42°, 597'-60°, 624'-75° brecciated contact with greywacke at 583' & 591.3' 618.0'-622.0' more x fractured & more carb. strgs. 622.0'-623.5' - slaty beds with 0.2' grey porphyry, all bx and cut by many carb. & qtz. carb. strgs. w.m. py-narrow basic dyke (hornblende needles) next porp.	1437	Tr.				
634.7-642.5	Brecciated zone-seds.-whole brecciated, only parts refractured - in places cut by qtz. carb. strgs. with fair py & cpy-some py slips 641.0-642.5 Bx-qtz. carb. strgs with py	1438	Nil				
642.5-651.1	Slaty seds. with odd greywacke bed 647.0' bedding 65°						
651.1-651.9	Carb. vein-brecciated-neg. min. contact angles 45 & 15°						
651.9-653.5	Slaty seds.-as before						
653.5-654.5	Carb. Vein-brecciated-neg. min.						

N.M.P., TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY D. F. Hurd

SIGNED G. E. Moody

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DIAMOND DRILL RECORD

PROPERTY PITCHVEIN MINES LIMITED HOLE NO. S64-1

SHEET NUMBER 7 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
654.5-748.0	Banded Zone - alternating slate & greywacke beds - often thinly bedded-fairly massive - cut by some carb. & Qtz. carb. strgs.				
655.0'-656.0'	strongly sheared number slickensided slips, two with mud on them, slips at 20° & 45°				
695	bedding 25°				
692.0'-692.8'	brecciated -carb.strgs. with fair py	1439	Tr.		
707.3-708.3	cut by many carb. strgs.w.m. py	1440	Tr.		
710.7-733.0	more x fracturing & bx.with more qtz. carb. strgs.				
742.0	bedding 70°				
	END.				
<p>Note: The hole was all in sediments, extending considerable the width of the belt. The sediments appear to be overturned to the north. Minor drag folding was noted along the length of the hole, however a major roll coming in toward the end of the hole. The beds dip at around 25-30° to around 600 feet, with minor local variations. From 600' on there is a noticeable steeping of the strata up to 65-70° with the core.</p>					

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY D. F. Hurd

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DIAMOND DRILL RECORD

PROPERTY PITCHVEIN MINES LIMITED HOLE NO. S64-3

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED Oct. 16/64
 LATITUDE 0-63S DATUM To investigate the rolling vein & area under swamp. COMPLETED Nov. 8th, 1964.
 DEPARTURE 3-00 W BEARING S30°W ULTIMATE DEPTH 725.7'
 ELEVATION _____ DIP -Collar- 44½ degs. PROPOSED DEPTH _____
590' - 33 degs.

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0 - 4.0	Casing				
4.0 - 6.0	Diorite-carb. & altered-cut by qtz. carb. strgs.				
6.0 - 8.5	Grey Feldspar Porphyry - altered - cut by hairline qtz. carb. strgs. - dissemin. py-core A-75°				
8.5 - 16.6	Diorite - as before but with irreg. narrow porphyry dykes				
16.6 - 17.5	Altered Diorite - highly carb & altered-cut by 1/2" carb. vein & 0.6' carb. strgs. at low angle to core - hi flat shear from 20 to 30 degs. to core.				
17.5 - 23.7	Diorite - as before but not altered				
23.7 - 24.5	Quartz Vein - barren, massive white qtz. with little carb. & chlorite strgs.				
24.5 - 47.0	Diorite - as before but with aplitic alteration in places - 30.6-33.8 soaked by aplitic juices and cut by aplitic strgs.				
47.0 - 52.6	Basic Syenite - with gradational much altered light green section				
52.6 - 57.0	Diorite - as before				
57.0 - 62.4	Quartz Strg. Zone 35% qtz. - little carb with qtz. barren - in diorite 59.5-61.7 - 50% quartz	1443	Tr.		
62.4 - 69.3	Diorite - as before 67.8 foliated & carb strgs.				

N.M.P., TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY D. F. Hurd

SIGNED G. E. Moody

DIAMOND DRILL RECORD

PROPERTY PITCHEVEN MINES LIMITED HOLE NO. S64-3

SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
69.3 - 75.2	Basic Syenite-gradational contact - red aplitic phases-begins with slip at 40 degs.				
75.2 - 77.9	Coarse Diorite - in places foliated - cut by carb. strgs. last foot highly altered.				
77.9 - 84.8	Basic Syenite - gradational with dior.				
84.8 - 96.0	Diorite - as before - fine py. in Qtz. carb. strgs. and in rock-pyrph. min. in rock				
	88.0-88.7 Qtz. veining with slips at 55 & 70 degs.- slt fine py.	1444	Tr.		
	91.0-94.0-finely x-fractured & carb.				
96.0 - 127.0	Basic Syenite-gradational contact				
	103.8 - 1" Qtz. strg. at 60° - fine disseminated py.				
127.0 - 138.0	Diorite - fine & coarse with hybrid phases altered and with some cherty incl.				
138.0 - 143.7	Cherty Sediments - cut by Qtz. carb strgs. some min. with py.				
	138.0 - 139.6 more strgs. & py.	1445.	Tr.		
143.7 - 150.0	Basic Syenite -				
150.0 - 162.0	Altered Zone - highly altered dior, syen- last two feet very hi alteration				
162.0 - 163.6	Vein Material - highly altered sedg. cut by Qtz. strgs	1446	0.03		

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

(25%) w.m. fine py

DRILLED BY D. E. Hurd

SIGNED G. E. Moody

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DIAMOND DRILL RECORD

PROPERTY PITCHVEIN MINES LIMITED HOLE NO. S64-3

SHEET NUMBER 3 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
163.6-174.0	Dioritized Seds. - more diorite				
	Vein 167.1-167.5 Brecciated Qtz. carb. vein -				
	VISIBLE GOLD noted in two places - one fine, one				
	coarser - w.m. fine py in wall rock contact				
	angle 50°	1448	0.12		
	169.2-169.6 - 50% qtz. & silic. w.m. fine py	1449	0.03		
	170.9-171.4 - flat carb. vein with qtz. strgs.				
	with cpy.				
174.0-218.9	Grey Cherty Seds. - highly altered cut by many				
	qtz. carb. strgs. w.m. in places in seds. with				
	fine py - in qtz. py & odd. speck chalco.				
	176.2-177.2 more strgs. & py	1447	Tr.		
	181.5-185.5 - cut by one 2" bx carb. vein &				
	many strgs. some with qtz. fine py in wall				
	rock	1450	Tr.		
	186.5-187.0 cut by one 1 1/2" & few fine qtz.				
	carb. strgs w.m. fine py. contact 80°	1451	Tr.		
	189.5-192.5 finely x-fractured many carb.				
	strgs. mainly flat - odd. min. section				
	199.0-215.0 cherty frags. in dior. or highly				
	soaked seds.				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

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SIGNED G. E. Moody

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DIAMOND DRILL RECORD

PROPERTY FITCHVEIN MINES LIMITED HOLE NO. S64-3

SHEET NUMBER 4 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	215.0-217.0 dior, highly altered x-fract.-many				
	qtz. carb. strgs. w.m. fine py	1452	Tr.		
218.9 - 219.4	Vein - qtz. carb. w.m. fine cubic py	1453	Tr.		
219.4 - 245.7	Grey Seds. mainly cherty-carb. in places soaked by dior. cut by many carb. & qtz. carb. strgs. considerable x-fracturing-odd section min. py.				
	239.3-240.3 brecciated-highly altered - many qtz. carb strgs. w.m. with pyrhh & py	1454	Tr.		
	244.7 - 245.1 bx & altered				
245.7 - 246.1	Vein Material-speck of Visible Gold-seds cut by qtz. & carb. strgs. (25%)	1455	0.01		
236.1 - 276.8	Argillaceous Seds. - in places soaked by dior.				
	249.0 - 2 $\frac{1}{2}$ " carb. vein no min at 50 degs.				
	261.0 - 263.7 highly altered dior.				
	268.0 - slips at 50° pseudo banding				
276.8 - 279.0	Vein Material - first foot brecciated, x-fractured & cut by many qtz. carb. strgs. & some bluish qtz. strgs. rest fractured not so much altered and fewer strgs.				
	276.8 - 279.0	1456	0.03		
279.0 - 287.1	Sediments-much altered & fractured -little dior.				

N.M.P., TORONTO--STOCK FORM NO. 501 REV. 12/51

DRILLED BY D. F. Hurd SIGNED G. E. Moody

DIAMOND DRILL RECORD

PROPERTY PITCHVEIN MINES LIMITED HOLE NO. S64-3

SHEET NUMBER 5 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
287.1-290.2	Rusty Leached Zone-contact angle 70°				
289.8-290.8		1459	0.01		
290.2-294.6	Sediments very highly altered-in places brecciated & cut by qtz. carb strgs.-ends with rusty carb. strg. at 50°				
292.0-294.6	more fracturing & strgs.	1457	Tr.		
294.6-296.2	Vein Quartz with a little carb. few chlor. strgs.-little fine py in wall rock	1458	Tr.		
296.2-344.6	Sediments-mainly argillaceous-few slaty more altered-greyish and mauve cut by qtz. carb. strgs. & carb. 332.0 finely banded at 20° to				
344.6-346.9	Vein Material-silic, brecciated carb. zone fair fine py-slips at 50 degs.	1460	Tr.		
346.9-366.6	Argillaceous Seds-grey & purplish-more altered cut by qtz. carb. strgs. & strgs of py & prrh.				
348.0-350.6	more altered, carb. & silic-strgs around 45 degs.	1461	Tr.		
366.6-382.9	Argillaceous Seds-grey-less altered				
383.9-386.8	Grey Feldspar Porphyry-carb & cut by carb strgs- some inclusions w.m. fine py	1462	Nil		
386.8-387.4	Argillaceous Seds.				

N.M.P. TORONTO-STOCK FORM No. 501 REV. 12/51

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DIAMOND DRILL RECORD

PROPERTY PITCHVEIN MINES LIMITED

HOLE NO. S64-3

SHEET NUMBER 6 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
387.4-387.8	Vein Material-cut by qtz. carb. strgs-blebs of pyrhh over 1" some py	1463	Nil		
387.8-417.7	Argillaceous seds.-grey with purplish sections finely banded in places -cut by few narrow porphyry strgs.				
417.7-419.2	Vein-carbonate-cpy on slip at start				
419.2-429.2	Sediments as before				
429.2-434.8	Highly altered Brecciated Zone-mainly carb. filling but some qtz. & silic, some porphyry sections-fair py, pyrhh, little cpy				
	429.2-430.9 hi bx fair py, pyrhh & cpy.	1464	Tr.		
	433.0-435.2 cut by more strgs. fair fine py	1465	Tr.		
434.8-469.1	Sediments as before-more altered-many narrow grey porphyry dykelets finely bedded in places at 50-60 degs. but dykes at 20°				
	468.0-469.1 porph.w.m. py & pyrhh	1466	Tr.		
469.1-531.7	Argillaceous seds.-grey-less altered, fractured and fewer qtz. carb strgs.				
	496.0-finely bedded at 40 degs				
	523.8-534.5 brecciated carb.vein				

N.M.P., TORONTO-STOCK FORM No. 501 REV. 12/51

DRILLED BY D. F. Hurd

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DIAMOND DRILL RECORD

PROPERTY PITCHVEIN MINES LIMITED HOLE NO. S64-3

SHEET NUMBER 7 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
531.7-536.2	Feldspar Porphyry-qtz.dior.(?) dissem. fine py platy py on slips-contact angles 15° x-fractured carb strgs.				
536.2-576.0	Sediments-mostly argillaceous-some grey-wacke some finely bedded sections mainly around 20°				
576.0-588.0	Highly sheared & altered Zone-Argillaceous & slaty seds-fractured sheared & shattered, numeous carb.& Qtz. carb. strgs.-slips mainly at 55°				
588.7-588.0	brecciated, highly carb. slaty seds some silic odd spot of pyrhh & cpy little mud on slip	1467	Nil		
588.0-588.7	Quartz, Carb. Vein-contact 30° fine dark wispy fractures with cpy & py vein next fault and some ground up	1468	Nil		
588.7-590.3	FAULT ZONE - mud & finely ground core-sand & bits recover show some well min. quartz.-1.0' ground & lost	1469	Nil		
590.3-591.7	Highly Brecciated-carb.zone-some silic	1470			
591.7-613.5	Highly Fractured Zone-argillites & slates numerous carb.strgs.				

N.M.P., TORONTO-STOCK FORM NO. 501 REV. 12/51

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DIAMOND DRILL RECORD

PROPERTY RECREATION MINES LIMITED HOLE NO. S64-3

SHEET NUMBER 8 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

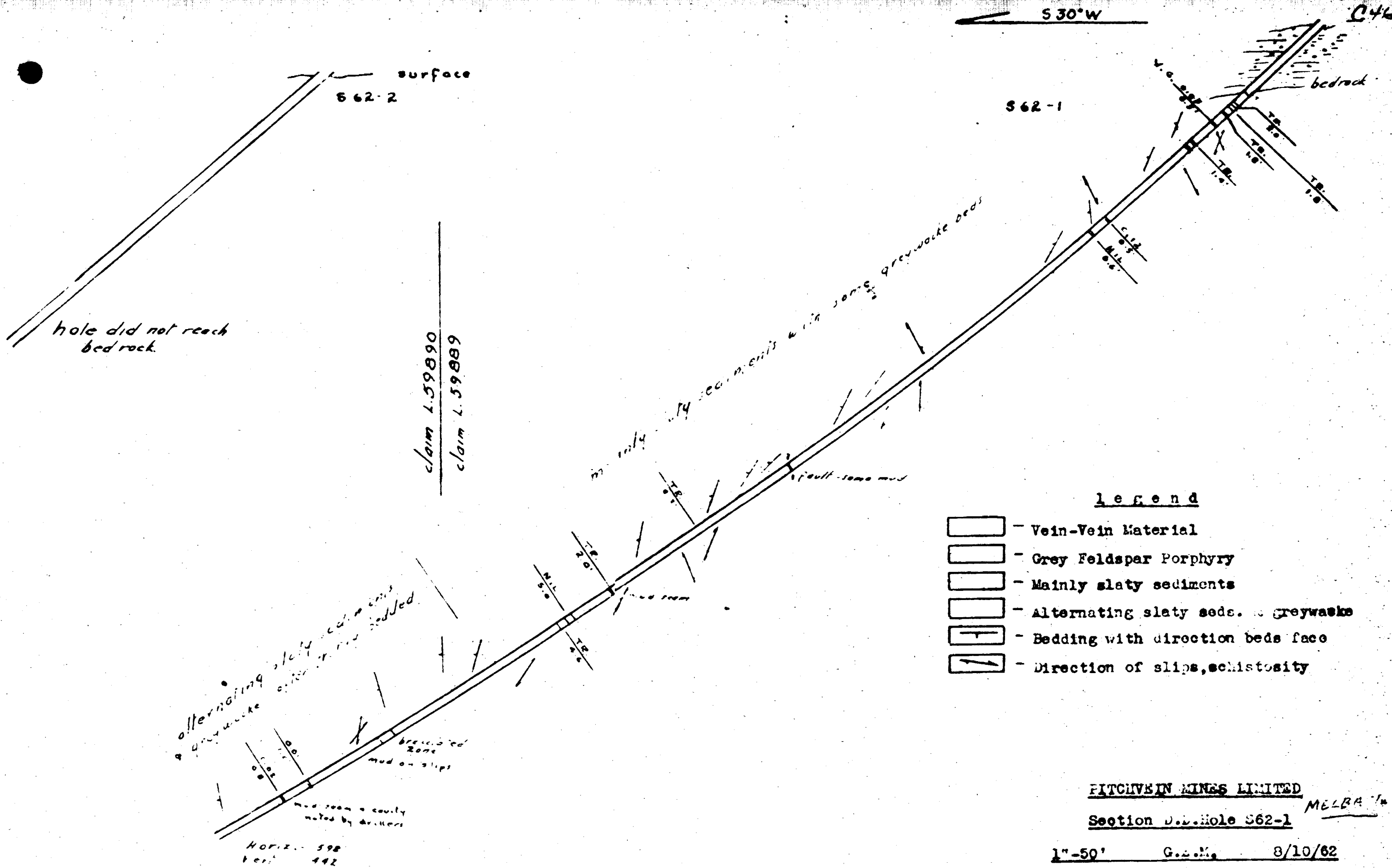
DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	612.0-113.5 more sheared, slaty slips				
613.5-725.7	Sediments - mainly gray argillaceous in places finely bedded & fractured carb. filling some qtz. strgs. & silic. becoming less fractured and fewer carb. strgs.				
	627.0 bedding 68°				
	635.0 flat talcose slip				
	643.5-644.1 cut 0.1 flat carb. vein some silic	1471	Nil		
	657.7-658.2 brecc. & carb. some purplish alter. mag. min.	1472	Nil		
	659.2-670.6 flat carb. veins				
	684.8-685.1 narrowly bedded at 55° few fine strgs. of py.				
	700.0 beds at 55°				
	724.0 bleb. of py.				
	HOLE STOPPED as cave from fault fell in. To be cemented and drilling resumed with larger machine.				

775.7
 170
 555.7
 cc
 Drill
 - L.P.

DRILLED BY D. F. Hurd

SIGNED G. E. Moody

101



Legend

- Vein-Vein Material
- Grey Feldspar Porphyry
- Mainly slaty sediments
- Alternating slaty seds. & greywacke
- Bedding with direction beds face
- Direction of slips, schistosity

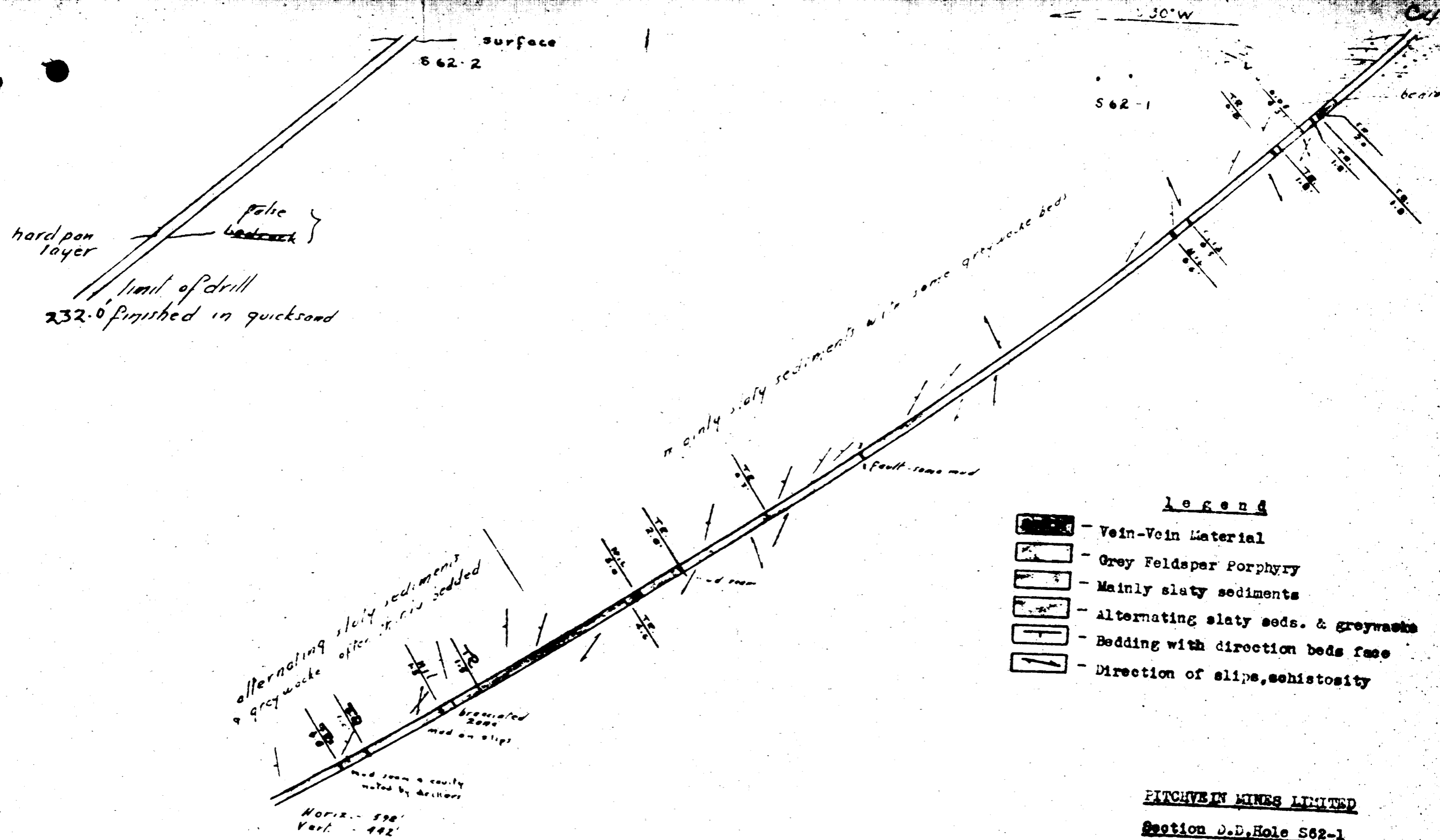
FITCHVEIN MINES LIMITED MELB. ¹⁰

Section D.D. Hole S62-1

1"-50' G.S.M. 8/10/62

assays in ozs/ft.

HORIZ. 598
VERT. 442



Legend

- Vein-Vein Material
- Grey Feldspar Porphyry
- Mainly slaty sediments
- Alternating slaty seds. & greywacke
- Bedding with direction beds face
- Direction of slips, schistosity







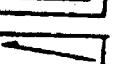

PITCHVEIN MINES LIMITED

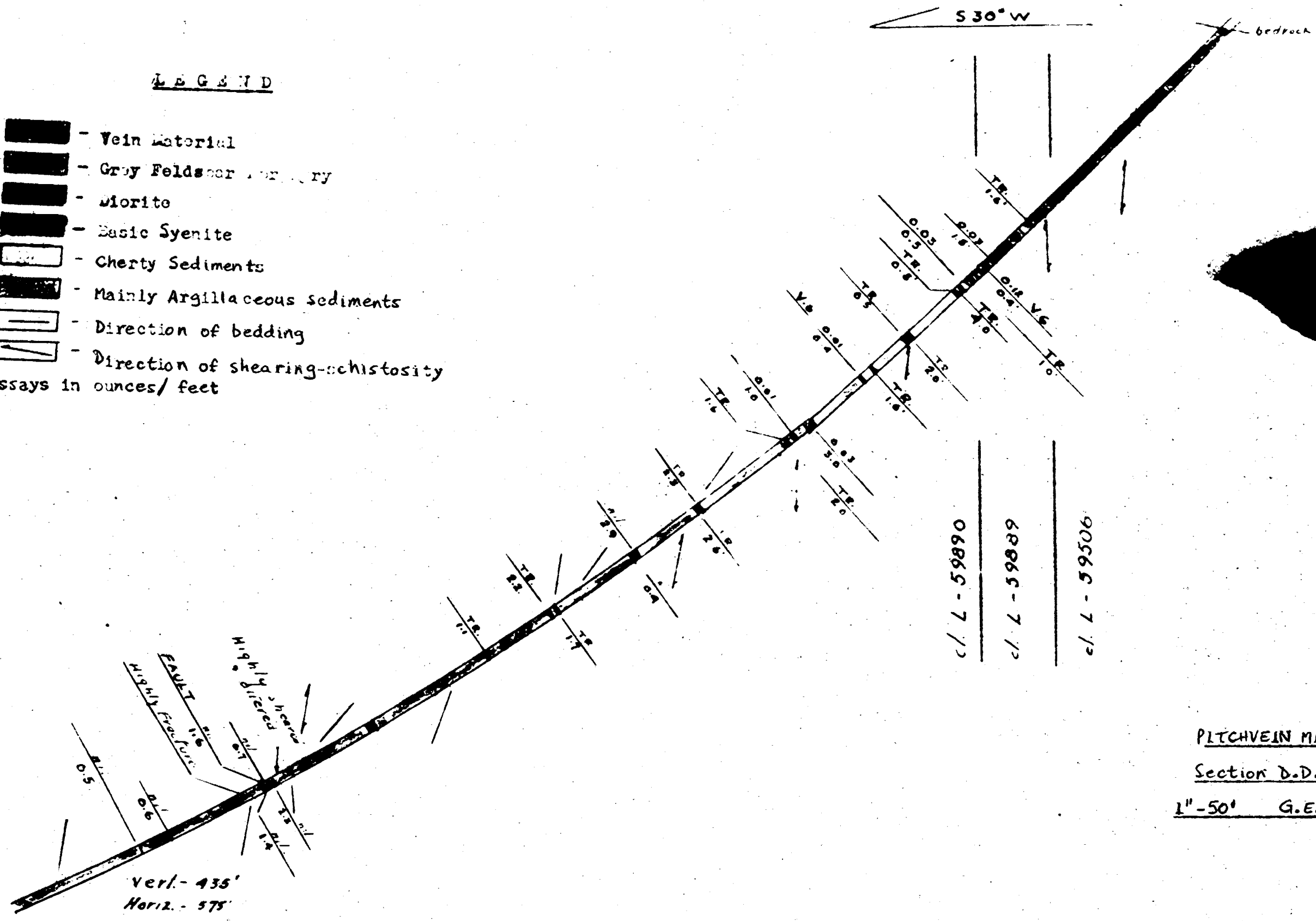
Section D.D. Hole S62-1

1"-50' G.E.M. 8/10/62

assays in ozs/ft.

LEGEND

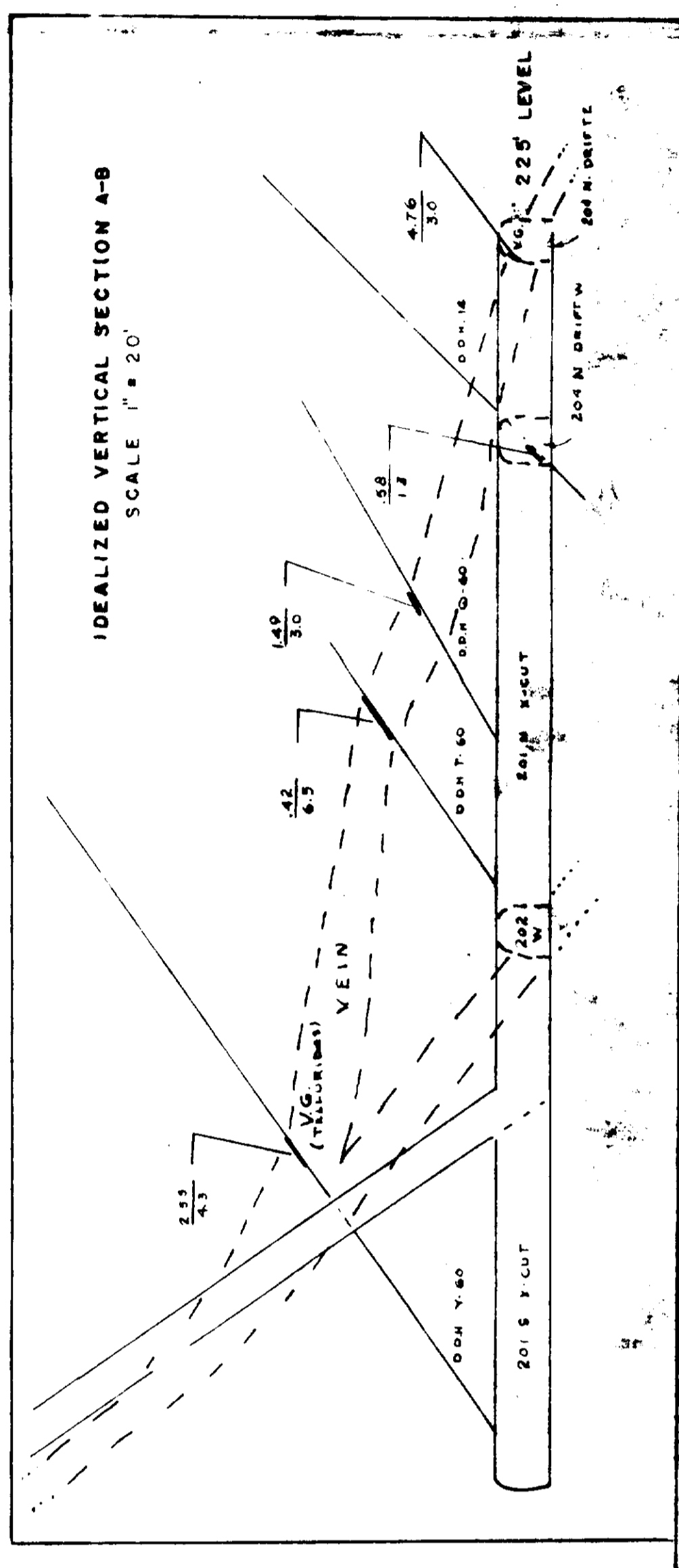
-  - Vein Material
 -  - Gray Feldspar gneiss
 -  - Diorite
 -  - Basic Syenite
 -  - Cherty Sediments
 -  - Mainly Argillaceous sediments
 -  - Direction of bedding
 -  - Direction of shearing-schistosity
- Assays in ounces/feet



PITCHVEIN MINES LIMITED
 MELBA
 Section D.D. Hole S62- TWP
 1" - 50' G.E.M. 1/11/62

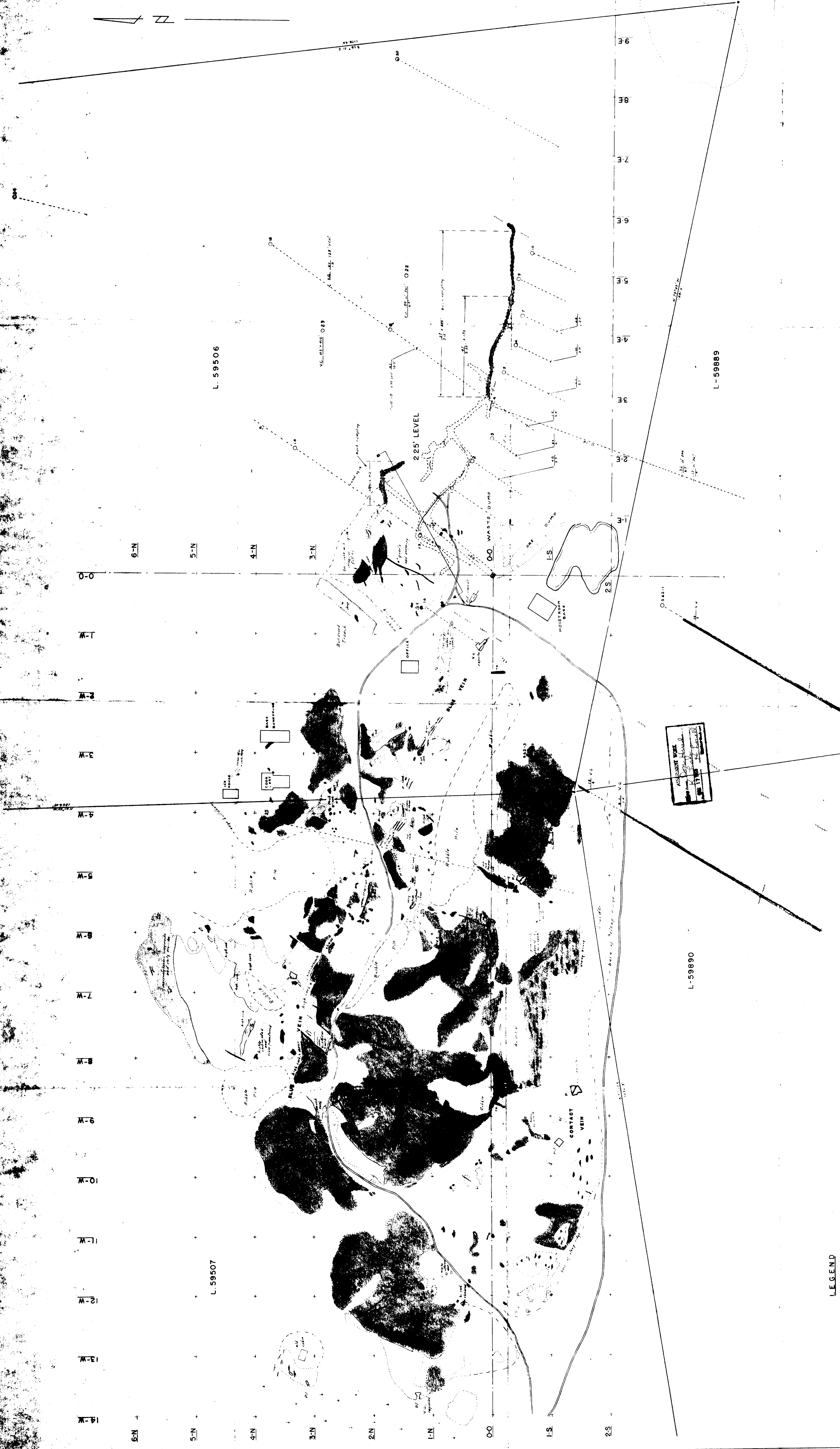
COMPOSITE PLAN - SHAFT AREA
 SURFACE and UNDERGROUND
PITCHVEIN MINES LIMITED
 MELBA TOWNSHIP, ONTARIO

SCALE 1" = 80'
 DECEMBER 14, 1962



- LEGEND**
- QUARTZ VEIN MATERIAL
 - FELDSPAR PORPHYRY
 - BASIC SYENITE - SOME DIORITE B. HYBRID PHASES
 - DIORITE - SOME BASIC SYENITE A
 - MAINLY CHERTY SEDIMENTS
 - SLATY SEDIMENTS, SOME GREYWACKE
 - ARGILLACEOUS SEDIMENTS
 - SHEARING
 - DIAMOND DRILL HOLE - 392.1' - DRILLED 1962

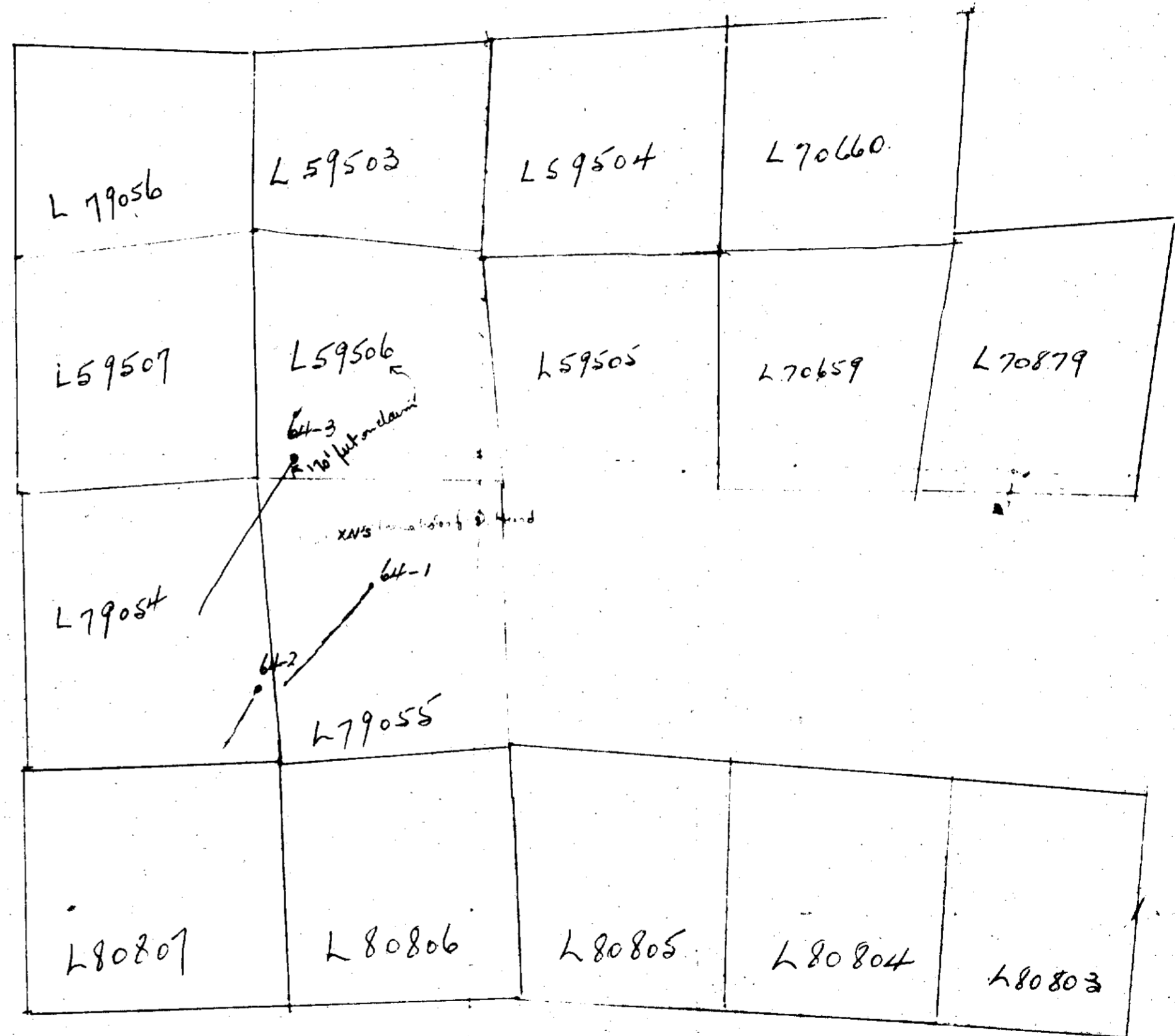
NOTE: UNDERGROUND DETAIL, DIAMOND DRILLING AND VALUES PRIOR TO 1962 ARE FROM COMPANY RECORDS
 ASSAYS ARE IN **PIPPERS**

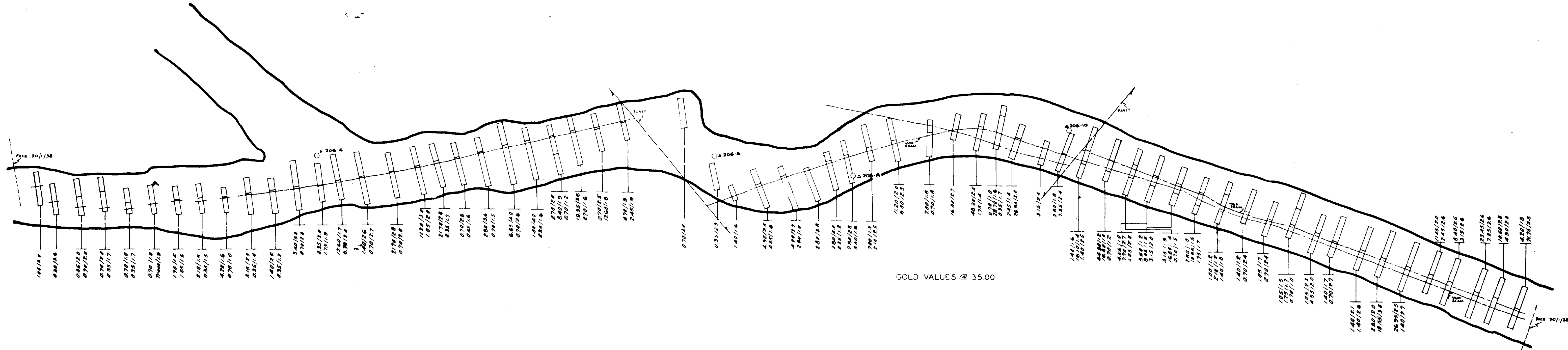


Melba TWP. CLAIMS

D.F. HURD

LOCATION DRILL HOLES
see drill logs attached

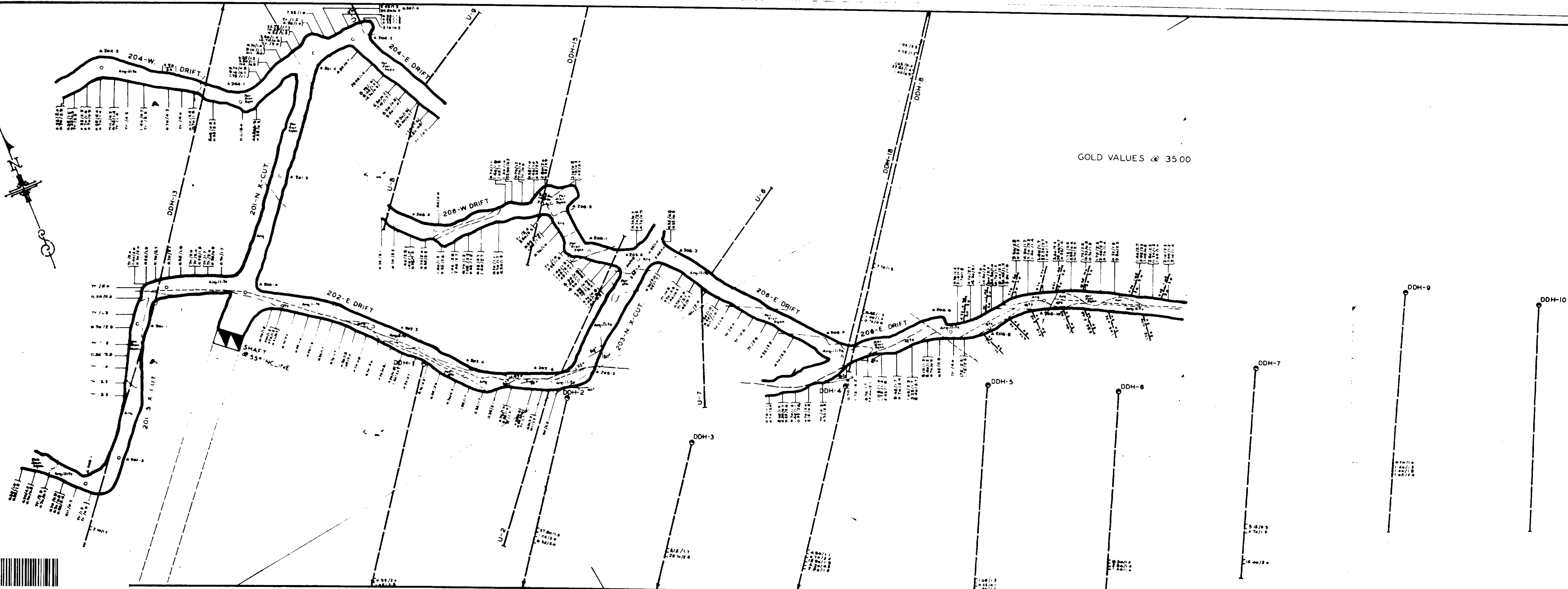
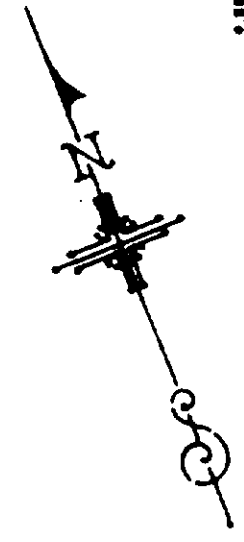




42A085E0049 63.3897 MELBA

ERIE CANADIAN MINES
 DRAWING ASSAY PLAN.
 LOCATION 206-E. VEIN- 225 LEVEL
 MELBA GOLD MINE S.LTD.
 MELBA TWP. ONT.
 SCALE 1" = 5'
 DRAWN BY K.O.M.AFTER G.A.FORRES.
 REF. NO. 519.
 DATE APR. 18-28

63-3897



GOLD VALUES @ 35.00

ERIE CANADIAN MINES

DRAWING LOCATION ASSAY & GEOL. PLAN.
 225 LEVEL.
 MELBA GOLD MINES LTD.
 MELBA TWP. ONT.

SCALE 1" = 20'

DRAWN BY K.O.M. AFTER G.R. FORBES.

REF NO 519.

DATE APR. 19-38.

